



TELEPHONE NUMBER:
617 CENTRAL (3 lines).

Established in
ENGLAND, 1859

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET,
LONDON, E.C. 4

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

Established in
AUSTRALASIA, 1885

No. 2,015. Vol. XC.

SEPTEMBER 7, 1918.

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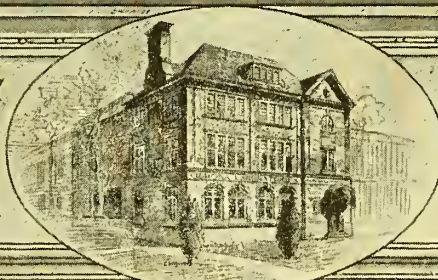
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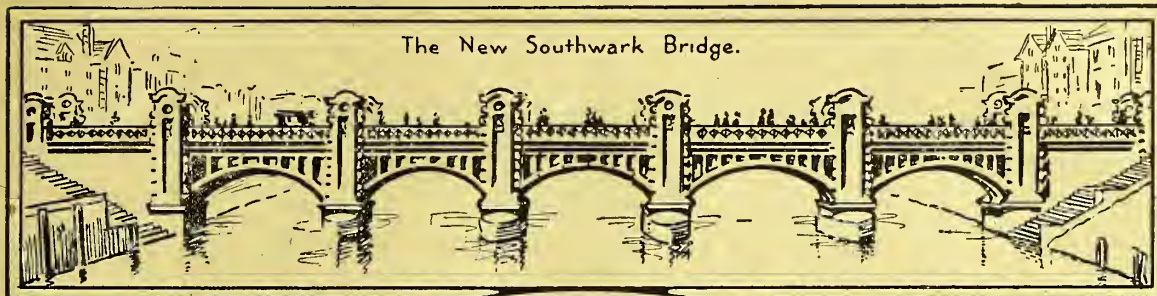
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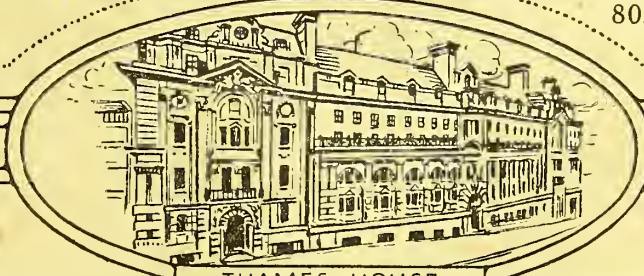
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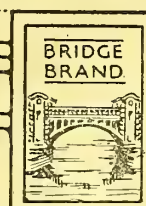
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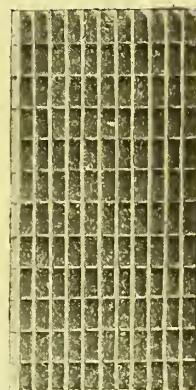
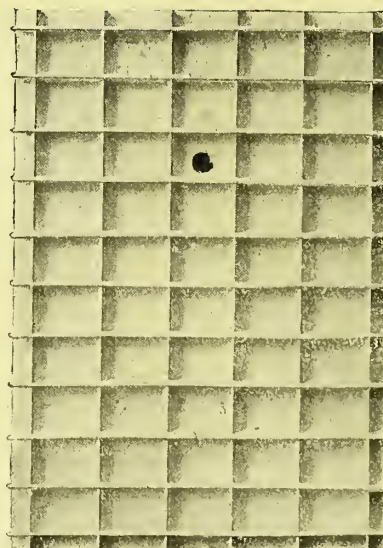
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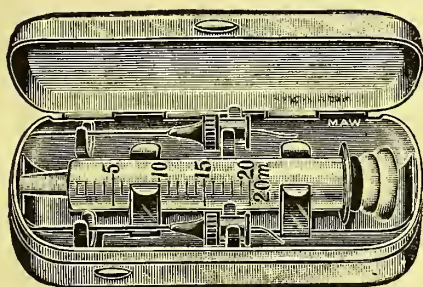
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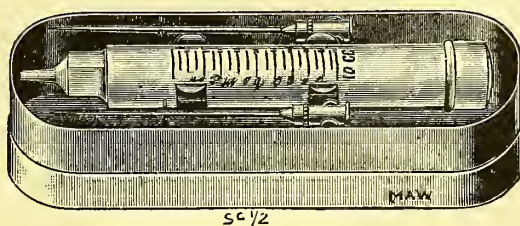
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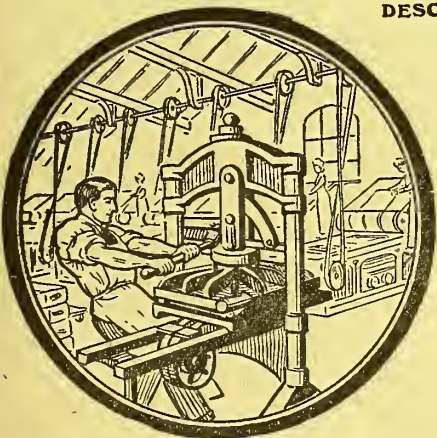
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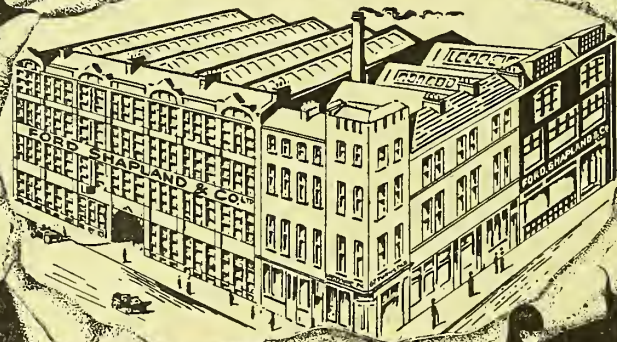
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Widely advertised and a ready seller: bearing a good profit to wholesaler and retailer.

Retailed at 2/9 and 4/6 per bottle.

Write for particulars.

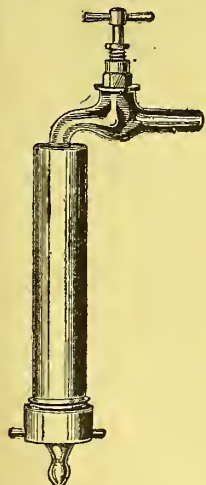
D^R HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

TRANS-CONTINENTAL AGENCIES LTD.,

Proprietors of Dr. Hale's "Vin-Sanguis" Co.,

444 Strand, London, W.C. 2.

PURE DRINKING WATER.



The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT
STATEMENT:

Wherever the PASTEUR
FILTER has been applied,
TYPHOID FEVER has
disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.
5 WHITE STREET, FINSBURY,
LONDON, E.C. 2.

The Chemists' Aperient Mineral Water

ALTERATION
IN
PRICES.

Aquaperia
(Harrogate)

Standardised and
Bottled by CAMWAL, Ltd.,
at their Spring at Harrogate.

Supplants Apenta,
Hunyadi-Janos, and
Enemy Waters of
Similar Character.

WAR PRICES

Per 10/- Doz.

9/6 per dozen in
6-dozen Lots.

Carriage paid on
2 dozen & upwards.

MINIMUM RETAIL PRICE
TO THE PUBLIC:

Per 1/4 Bottle.
P.A.T.A.

2/- per dozen allowed for
Empty Bottles returned
Carriage Paid to our
Factories.

Of all Wholesale Houses, and
"CAMWAL"

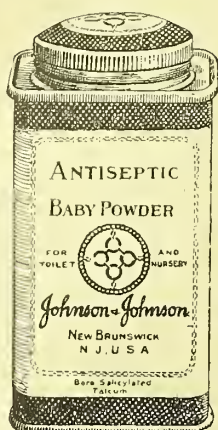
LTD.

HARROGATE, MANCHESTER,
BIRMINGHAM, BRISTOL,
MITCHAM, LONDON,
and Depots.



Special Export F.O.B. quotations, including packages.

Special Allowance for Window Display.



Look for the Name
and Trade Mark.

WARNING.

The package is being imitated, but the contents and the trade mark are inimitable and the name of Johnson & Johnson is the Hall-mark for Quality.

Antiseptic Baby Powder

Johnson & Johnson.

← Minimum Retail Selling Price P.A.T.A. 10½d. per package.
← Cost 7/- per dozen net.

We are now in a position to supply THE ORIGINAL Antiseptic Baby Powder from our London warehouse.

EMPTY CONTAINERS. How to help in a War Economy.

AS it is very difficult to obtain an adequate supply of the containers for the Antiseptic Baby Powder, we consider it a National Duty at this time to endeavour to conserve these and save material and labour wherever possible. With this object in view we are prepared to make a substantial allowance for all empty containers returned to us in good condition, not scratched. For full particulars as to this allowance look for the notice which is sent out with the orders for this Antiseptic Baby Powder.

JOHN TIMPSON & CO., Ltd., 104 & 106 Golden Lane, London, E.C.1

Phone: City 6910-6911.

Telegrams: "Porous London."

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
— Manufacturing Chemists —

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A. Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.	6/6
" " " " " bottles in " " " " " cartons	2/-	16/-

*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box @ 8d.	Box. 2/-	Doz. 18/-
--	-------------	--------------

IMMEDIATE DELIVERY

GATES' BOTTLE CAPPING SKINS



SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."

Sole Pioneer and Only English Manufacturer:

LESLIE GATES,

3 & 14 Nightingale Road,
Clapton, E. 5.

Telegraphic Address:
"Englishism, Lowclap, London."
Telephone: Dalston 1207.

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.



THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

WHOLESALE :**10/-****Per
Dozen Bottles.**



RETAIL :**1/3****Per Bottle.**

No. 896.

“KLONDOL” is a line that is in great demand and should be stocked by all Chemists. It shows a good profit and is an everyday necessity, and Chemists should not allow their stocks to get too low before ordering, as a profit-bearing line like “KLONDOL” will soon show a big difference in the returns.

Although of the Lysol class we have not given it this name as it deserves distinction.

Second to none as a Disinfectant and Sterilizer.

Used in all the principal Hospitals.

Write for full particulars to

EDWARD COOK & CO., LTD.,
BOW, LONDON, E. 3.

Alteration of Prices.
JOHN BOND'S
"CRYSTAL PALACE" MARKING INK

IT PAYS
TO PUSH
IT

6d. size, $3/7$ per dozen. Minimum protected selling price, 5d.

1/- " $6/7$ " " " " " " " 9d.

This will show retailers a profit on the 6d. size of no less than 43%.

The rate of profit on the 1/- size will remain the same.

43%
Minimum
Protected
Profit.

Minimum order at Wholesale rates, one Gross of 6d size amounting to 38/- or assorted order to same value. 1/- size 69/- per Gross. Carriage paid on parcels of £5 and upwards. Smaller quantities should be ordered through any of the Wholesale Houses. When ordering please specify if Heat or Non-heat is required.

Ⓒ. A good assured minimum profit on *this* Marking Ink which will always make new customers. Ⓒ. Compare with what you are paying for other makes, and NOTE the difference. Ⓒ. Retailers need not fear with *this* make competition by cutters.

Manufactory : 75 SOUTHGATE ROAD, LONDON. N.1.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
 FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY CO., L^D

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office : 4 India B'ngs, Water St., Liverpool.



A Safe & Indispensable Family Remedy

EUSALINE

"THE FAVOURITE HEALTH DRINK."

The foremost place which EUSALINE now occupies in public appreciation amongst Natural Fruit Salines has been won by its outstanding merits.

QUALITIES :

Cooling
 Refreshing
 Cleansing
 Sparkling
 Palatable

As a Morning Tonic EUSALINE is unrivalled, it quickly corrects all indiscretions in eating and drinking—sweetens the stomach, cleanses the system and purifies the blood.

AN ALL-THE-YEAR SELLER. KEEPS IN ALL CLIMATES.

Its inviting sparkle, pleasing taste and flavour are particularly acceptable to children, who will take EUSALINE when they refuse all other aperients.



EUSALINE is being extensively advertised during the coming months, so that a large and steady demand is assured.

EUSALINE is Retailed at 1/9 per bottle: Wholesale price, 15/- per dozen. Discount, 15% and Carriage Paid on £5 orders. Can also be had in boxes containing 13 packets, to retail at 11d. per packet, or 2 for 21d., and 1/3 per box. Wholesale price, 12/- per gross. Discount 15%, plus bonus, according to quantity ordered. Carriage Paid on £5 orders.

GEORGE WALKER & SON, Ltd.
 Reid Street, Bridgeton - GLASGOW.

ESTABLISHED 1860.



DISTINGUISHABLE FROM ALL OTHER PREPARATIONS BY ITS GRANULAR FORM, WHICH ENSURES A DEGREE OF MEDICINAL ACTIVITY AND FRESHNESS HITHERTO UNOBTAINABLE.

**LABORATORY
OF GENERAL PHARMACOLOGY,**
8, Rue Vivienne, Paris.

LONDON AGENTS :
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.



**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

**THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.**

Sold by all Chemists.
**Wholesale: 8, Rue Vivienne,
PARIS.**

MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
ties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.*

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

**A harmless antiseptic
preventative against CHOLERA-
FERMENTATION - INDIGESTION
& other intestinal disturbances.**

SOLD BY ALL CHEMISTS

PARFUM
MARY GARDEN
RIGAUD
PARFUMEUR
16, RUE DE LA PAIX
PARIS.

*I find the color exquisite and
call it Charming & have called
by my name. Very sincerely,
Mary Garden*

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE - KING, ROBINSON & CO.
LIVERPOOL - - - MANCHESTER

We offer You—

Forceful Publicity
Attractive Showcards
Handsome Profits
Goods that Sell

if you handle Anzora Cream and Anzora Viola—the finest fixatives for the hair ever produced. Write to-day for full particulars and Showcards. Don't stock substitutes, for they will only disappoint customers.

TRADE { 11/6 per dozen, retails at 18/-
TERMS { 19/6 per dozen, retails at 30/-

ANZORA
HAIR CREAM

ANZORA PERFUMERY CO.
28, 32, 34 Willesden Lane, London, N.W.6.

We offer

WAXES

PETRO. JELLY

LIQUID PARAFFIN

B.P.

WHITE OILS

Send us your inquiries.

J. J. FRANCES & SONS,
LIMITED,
80a Southwark St., LONDON, S.E. 1.

ELEY BROTHERS, LIMITED

specialise in the manufacture of
the following articles at the
lowest prices:

Shaving Stick Cases

Oval and Round Tops

for Powder Tins, Cruets,
Dredgers, etc.

Metal Boxes

for Dentifrices, Soap Tablets, etc.

Ferrules

for Walking Sticks, Whips,
Bamboo Fittings, etc.

Pencil Fittings

in any of the following metals:
Brass, Copper or White-metal
(nickel or silver-plated),
Aluminium and Jewellers' Metal
(Tombac).

*During the continuance of the War we cannot
undertake orders to make any of the above goods
requiring one or more of the metals for their
manufacture of which the use for commercial
purposes has been prohibited by H.M. Govern-
ment; but we invite inquiries, as we still have
some articles in stock which were made before
the prohibition was issued.*

ELEY BROTHERS, Ltd.

(Dept. 21), Edmonton, London, N.



The Finest Quality
Aerated Waters are
made only with
the Finest Quality
ESSENCES

Boake Roberts'

Soluble Essences are
of the finest quality
and being extremely
concentrated are
most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash Vanilla

A. Boake Roberts & Co. L^{td}.
Stratford, London.

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/- Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.

$\frac{1}{2}$ Doz.	Ingram's Milkweed Cream	...	...	Retails 2/-	Price 8/-
$\frac{1}{2}$ Doz.	" Velveola Souveraine (Face Powder)	"	"	2/-	" 8/-
$\frac{1}{2}$ Doz.	" Zodenta Paste for the Teeth	"	"	1/-	" 4/-
$\frac{1}{2}$ Doz.	" Rouge, Light, Medium, Dark	"	"	2/-	" 4/-
$\frac{1}{2}$ Doz.	" Perfume, 1 oz. assorted in fancy packages	...	...	" 4/-	" 16/-
100 Guest Room Packages free.					£2

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

BRITISH MADE TIN FOIL

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

Manufactured by

Venesta Ltd.
1 Great Tower St. E.C.
London
England



A Profitable Burden

CARRY THE STOCK THAT PAYS!
183% PROFIT

The reward is rich. Delighted ladies fill your shop asking for more and more packets of "Eucryl" Shampoo Powders. It makes their hair so glossy, so soft, so easy to manage. Ladies are discriminating, ladies are appreciative—they tell one another when they have found a speciality that pleases them.

Further:

EUCRYL

SHAMPOO POWDERS

leave a magnificent profit for you. 183% looks well in your returns. Start to-day introducing "Eucryl" Shampoos to your customers. The contents of the packet are of the very finest quality, delicately perfumed, and are sure and certain sellers. Write for trial order at once by filling in attached coupon.

EUCRYL LIMITED
61-63 LANT STREET,
SOUTHWARK, S.E. 1.

COUPON.

Please send me 3 dozen boxes of EUCRYL Shampoo Powders (8 2d. packets in a box) together with 1½ doz. boxes as Free Bonus, for which I enclose cheque value 24/-

Name.....

Address

"C. & D."

EUCRYL Limited, 61-63 Lant Street, London.

To the Trade.

We beg to inform the trade that we have shortly a novel scheme of advertising our unique preparation to put before the public, and intend that the direct benefit of it shall go straight to our customers.

We therefore strongly advise you to replenish your stocks against this campaign, and orders should be sent early to avoid late deliveries.

TOZANA is obtainable from your Wholesaler or direct, and shows you a very high rate of profit.

TOZANA HAIR FOOD

Ladie's strength Hair Tonic.
Hair Tonic F xing Cream, Gents' strength.
257 Gray's Inn Rd., London, W.C. 1.

Veldt Cream

LABEL-TITLE. COPYRIGHT

THE LIQUID VANISHING SKIN FOOD.

Guaranteed absolutely free from Glucose, Benzoin or Tragacanth, so cannot dry up the skin.

PAYS 40% ON MONTHLY BONUS TERMS.

Retail.	Size.	Price.	Free Bonus	on quantities named or pro rata with each gross.
3 1/2 d.	1 oz. bts.	36/- per gross	2 doz. 9d.	with each gross.
9d.	3 oz. bts.	7/- per doz.	2 doz. 9d.	with each 6 doz.
1/3	6 oz. bts.	12/- per doz.	2 doz. 9d.	with each 4 doz.
2/6	12 oz. Bath-size bts.	24/- per doz.	2 doz. 9d.	with each 2 doz.

FREE IN ADDITION TO BONUS.

On £3 orders carriage paid.

Peach and Lilies Showcard (water-colour reproduction).
Silent Salesman Showcase picturing Ellaline Terriss.
Monster Show Bottle filled with genuine "Veldt" Cream.

Obtainable on bonus terms only from

THE VELDT LABORATORY, Louth, England
or through our Special Agents,
AYRTON, SAUNDERS & CO., Ltd., LIVERPOOL.



THE WORLD'S KEENEST BUYERS

and Business men know the value and importance of stocking an article appealing especially to Woman, the great spending factor of this country.

The EVAN WILLIAMS' ORIGINAL HENNA SHAMPOO, through the perfection of its manufacture, is recognised as the standard of Henna quality. It is to be found in every successful establishment because it unfailingly attracts the best class of buyer wherever it is shown.

Our large Advertising Campaign is now in full swing. This has been so arranged to create a demand for our Retailers, and it will pay you to secure your stock without delay. Remember, EVAN WILLIAMS' HENNA SHAMPOO is a proposition which sells itself wherever shown.



Write TO-DAY for full particulars.

Our supplies having been RATIONED, we are compelled to make the acceptance of orders subject to the condition that, should we be unable to execute an order in its entirety, customers will accept a proportionate distribution of available stocks.

THE EVAN WILLIAMS CO. Ltd., 18 & 18a Ogle Street,
Foley St., LONDON, W.1.

“Regina” always profitable

PRICE'S REGINA SHAVING STICK



The “worth-while” line is
“REGINA SHAVING STICK.”

The profit is most attractive.

The quality is high-grade, and press publicity is helping you all the time.

ASK US ABOUT REGINA.

PRICE'S
Battersea, London, S.W. 11



**RETAIL
PRICE 1/-**

DIADEM

Face Powder



DIADEM

Vanishing Cream

possessed of the elusive fragrance of Diadem Cream, adheres readily to the skin. Made in Blanche, Naturelle, Rachel, and Rose tints. Packed in large artistic boxes, in the distinctive Robartes style and colouring. A sure seller.

a cream of rare purity and charm, put up in novel white globes which have an irresistible appeal and packed in dainty boxes in Robartes' attractive style. Handsome profits for you in selling.

Diadem Powder

TRADE

TERMS

Diadem Cream

Advertised and Minimum Retail Price . . . 2/6
Trade, per doz. 20/-

Advertised and Minimum Retail Price . . . 3/9
Trade, per doz. 30/-

Window and Counter Materials free on request. Write for particulars.

Special Notice and Offer to the Trade.

Each jar of Diadem Cream contains the following notice :—“On returning 6 of these empty Diadem jars to any Chemist or Hairdresser in the United Kingdom, a new 3/9 size jar will be given you free in exchange.”

Upon any of our trade customers therefore returning to us 6 of these empty jars carriage paid, we will immediately forward in return, post free, 2 (3/9 size) jars of Diadem Vanishing Cream.

DECOLTENE
The liquid hair remover

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

Dinkie
Dainty Deodorant

An attractive line that enjoys good sales. A greaseless Cream that takes the odour out of perspiration. Daintily packed in opal jars.

TRADE TERMS.

DECOLTENE. Advertised and min. Retail price Trade 30/- per doz.

3/9

DINKIE. Advertised and min. Retail price Trade 20/- per doz.

2/6 Particulars and Show-cards on request.

ROBARTES, LTD., 128 Jermyn St., London, S.W.1

FIELD'S "SIANARA" Toilet Soap

With the Enchanting Perfume of OLD JAPAN.

SUPPLIED IN STANDARD 4d. SIZE AND SHAPE.

ALSO IN

4d., 5d., 6d., and 7d. ROUND BATH.

OWING TO THE LARGE DEMAND, AND IN VIEW OF WAR-TIME DIFFICULTIES OF MANUFACTURE, ORDERS SHOULD BE PLACED WELL IN ADVANCE OF REQUIREMENTS.

J. C. & J. FIELD, Ltd., Toilet Soap Experts. **LONDON, S.E.1.**

Telegrams: "OZOKERIT, PHONE, LONDON."

ESTABLISHED 1642.

Telephone: HOP 3905.

TITTERTON'S CELEBRATED HAIR BRUSHES

**GOOD
PROFITS**

are made by selling

**TITTERTON'S
CELEBRATED
BRUSHES**

(Hair, Tooth, Nail & Shaving
Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.

TITTERTON & HOWARD,

Brush Manufacturers,

8 & 10 Great Titchfield St., London, W.1.

10^d.



Make your
old Hat a
new one.

In bottles, 10d.
each, in separate
neat cartons,
with suitable brush.

These Dyes
are a distinct
invention,
dyeing the
straw without
an objectionable
varnished
appearance,
and producing
the effect of
new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS,
ALSO LEAFLET OF TESTIMONIALS.

"Luton" HAT DYE

**WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.**

London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export.

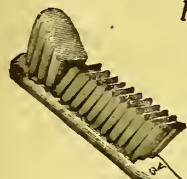
Est. 1878

Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

Bidwells' Ltd.

TOILET BRUSHES

Finest Quality.



HAIR BRUSHES

Bidwell's
"GLORIA"
Silverdrawn
Perfect Tooth Brush
(Assorted Patterns).

Head Office and Factories : AXMINSTER, Devon
London Office :
BUSH LANE HOUSE, CANNON STREET, E.C. 4

NICKELLED ZINC
TUBE CLIPS

THE MANUFACTURERS ARE

NAPPER & DAVENPORT
7-11 ST. GEORGE'S PLACE
BIRMINGHAM

THEY HAVE MATERIAL IN STOCK

SEND YOUR ENQUIRIES WHILE SUPPLIES ARE AVAILABLE



LOVELY
(A BRITISH SCIENTIFIC TRIUMPH)
EYELASHES

P.A.T.A.
Face Value Only,
1/1, 1/9 & 3/6
Tram Advt.
round London,
and at Leeds,
Leicester,
Coventry and
Edinburgh.

grown and kept so by the application once daily of the
colourless harmless eyelash food. Beneficial to the eyes

CURLASH CREAM

Extensively and continuously advertised.

Endorsed by Mrs. Martin Harvey, Miss Nancy Price, Miss D. Tree,
Miss Elizabeth Risdan, and hundreds of other ladies of discrimination.
Testimonials received daily. Stocked by Butler & Crispe, Sangers,
and other Wholesalers. Try a dozen 1/- size in your next wholesale
order. We will supply you with dummies and showcards for
small window display. **MAKES CONSTANT CUSTOMERS.**
THE D. BALDWIN MFG. CO., LTD., Wigmore St., London, W. 1.

SOAPS AT PRE-WAR PRICES.

We make Two Offers which cannot be touched to-day for Value.

Our terms are **CASH WITH ORDER.**

All goods **CARRIAGE PAID** and **FREE PACKAGES.**

One-Gross lot 6d. 'N.V.'
Rapid Shaving Sticks @
36/- gross, 1 doz. FREE
Carriage Paid. Free Package.
Cash with order.

Returns ...	£3 18 0
Outlay ...	£1 16 0
Net Profit	£2 2 0

One-Gross lot 9½d. 'Virox'
Medicated Skin Soap @
72/- gross, 1 doz. FREE.
Cash with order. All Carr. Paid.
Free Case. This speciality is practically
4-oz. Tablet Green Colour Well-matured Soap,
agreeably perfumed.

Returns	£6 3 6
Outlay	£3 12 0
Net Profit	£2 11 6

We cannot send samples. We make offer without engagement.
We will not supply more than 2-Gross Lot to any one firm.

Exclusive Proprietors :

NI-VERRE CHEMICAL CO., 5, 6 & 7 Ormeau Avenue, Belfast (Ireland).

S.V.M. RANDALL & SON,

Limited;

Wholesale and
Export Druggists,
SOUTHAMPTON

Best Quality Only.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow
and golden, for pharmaceutical
purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller
packages according to requirements.

Inquiries are solicited for this article
of **BRITISH MANUFACTURE**, and
buyers may rely that for quality and
price it will meet any competition

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool,"

Vaseline

Trade Mark Registered

PREPARATIONS.

IN consequence of the Government requiring all the space on steamers leaving New York for England, we have been unable to obtain our usual supplies, although there are large quantities of goods awaiting shipment at our factory, and will be forwarded as soon as accommodation can be secured on outgoing steamers from America.

Unfortunately, owing to enemy action, several large consignments have been entirely lost at sea, hence temporary shortage of some of our preparations. We are, therefore, compelled to ask the indulgence of our customers in the meantime for any delay or inconvenience that may arise under the circumstances stated, which are, of course, beyond our control.

Chesebrough Manufacturing Co.

42 HOLBORN VIADUCT,

LONDON, E.C. 1.

SAVE 3/- PER GALLON BY BUYING GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

Milner's Chemical Co., Liverpool.

TO-DAY'S PRICES.

		6 doz.	12 doz.
"MILNER CLEANER"	3d.	10/- net	19/- net
<i>For white straw hats.</i>			
"PLANO"	3d.	12/- net	23/6
<i>For chapped hands and roughness of the skin.</i>			
"RAILOX"	3d.	12/- net	23/6
<i>Nit and Lice destroyer.</i>			
"RAILOX"	7½d.	5/3 per dozen	(Carr. paid).

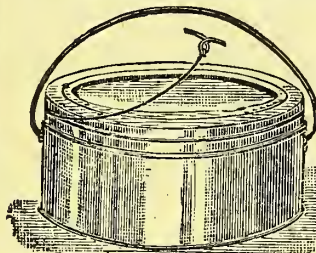
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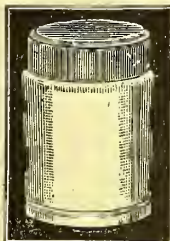
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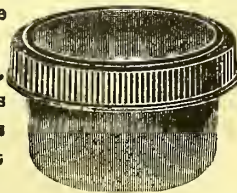
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"C. & D. DIARY," 1919.—Our annual *Diary*, which will be in the same form as the last issue, has, in consequence of war conditions, to go to press somewhat early, and the work of revision is already in hand. We shall reserve space for the registration of formulas for "known, admitted, and approved" remedies. Our *Diary* was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1919 *Diary* for such formulas will be limited, so that true copies of them, with doses or other directions for use, should be sent to the Editor C. & D., 42 Cannon Street, London, E.C., as promptly as possible.

UNITED ARTS RIFLES, "B" COMPANY (PHARMACISTS).—September 8, at 10 a.m., company parade at headquarters—Imperial College Union, South Kensington, S.W.—drill in Hyde Park. On September 11 and 12, platoon parades at 3 p.m.

EASTBOURNE PHARMACISTS' ASSOCIATION.—A meeting will be held at 2a Terminus Buildings on September 10, when the subject of "Organisation" will be discussed. Mr. Hugo Wolff, member of the Council of the Pharmaceutical Society, will be present.

INDUSTRIAL RECONSTRUCTION COUNCIL.—A Conference on "Works Committees" will be held on September 10, at 6 p.m., in the Hall of the Institute of Journalists, 2 and 4 Tudor Street, London, E.C. 4. The subject will be introduced by Mr. Robert Wilson, of the Ministry of Labour, after which the discussion will be open. No tickets are necessary.

European War News.

Personalia.

STAFF-SERGEANT STANLEY MARRIS (serving with Australian Field Ambulance in France) is at his home at Grimsby on leave.

SECOND-LIEUTENANT FRANK HODKINSON, Royal Engineers, who was apprenticed to pharmacy with John Phillips & Son, Wigan, has been awarded the Military Cross for conspicuous gallantry.

PICNEER NORMAN CRESSWELL, R.E. (Gas Section), of Cresswell & Co., Ltd., St. George's Pharmacy, Netherfield Road, Liverpool, is suffering from shell-shock and is being treated at the 3rd Northern General Hospital, Firvale, Sheffield.

MR. DAVID TEES, of Gratian & Co., Ltd., Corn Market, Belfast, has been notified that his son, Captain E. S. L. Tees, was wounded in France on August 24. Captain Tees has served in Macedonia, Egypt, and Palestine, and was recently home on leave.

LIEUTENANT NOEL H. WHIFFEN, youngest son of Mr. Thomas J. Whiffen (Whiffen & Sons, Ltd.), was wounded on August 23 in Flanders, and is now in England. He is progressing as favourably as can be expected. Lieutenant Whiffen has not been in England since he went to India in October 1914. Mr. Whiffen has three other sons serving in the Army.

SEARGEANT ARTHUR LOUGHTON, who has joined a Volunteer battalion, was the chief bayonet instructor at the recent training camp of the four battalions of the Bradford group. Sergeant Loughton, who is a specialist in bayonet work, was the sergeant in charge of the company platoon which won the West Riding Volunteer silver cup for general efficiency and the second prize in the Northern Command competition. Sergeant Loughton is a member of the staff of Stephenson Bros., Ltd., Bradford.

Miscellaneous.

INTERMENT ORDER.—In the third list of internments of enemy aliens recommended by Mr. Justice Sankey's Advisory Committee occurs the name of Walter Reihl, Nunhead, chemist, employed by a firm of manufacturing chemists, twenty-one years of age, resident here twelve years.

A GOOD EXAMPLE.—As the result of an appeal by the Treasurer and Secretary of the Sunderland Pharmaceutical Association, the members have contributed 18l. 9s. to St. Dunstan's Hostel for Blinded Soldiers and Sailors, and 16l. 17s. 6d. to the Belgian Doctors' and Pharmacists' Relief Fund.

AIR-RAIDS INTO GERMANY.—The poison-gas factories of Germany are receiving the attention of the Royal Air Force Independent Force, and the persistence with which the air raids are carried out augurs well for a just retribution. The Germans pretend that very little damage is done, but reports from Holland tell a different tale.

LARD SUBSTITUTE.—The Ministry of Food, through the Oils and Fats Branch, is putting on the market a new product called "compound fat," which can be used in place either of lard or suet in cooking. It is to be sold at 1s. 4d. a lb., as compared with 1s. 2d. for margarine and 1s. 10d. for dripping. About 1,400 tons of the commodity will be made weekly. It is composed of animal fats and cottonseed oil.

HELPING THE DISABLED.—The King's Fund for the Disabled has been founded with Mr. John Hodge as Chairman of the trustees. The Fund will make grants to disabled officers and men to supplement State pensions, so that the men can be more easily re-established in civil life. The address to which contributions may be sent is Westminster House, Millbank, London, S.W. 1. Already 200,000l. has been received, inclusive of 78,000l. from the King.

WINDING-UP ENEMY FIRMS.—Orders have been made by the Board of Trade under the Trading with the Enemy Act requiring the following businesses to be wound up: C. Oxford & Co., 59 Mark Lane, London, E.C. 3, dealers in tallow, oils, and turpentine, successors of Fast & Ncher, 59 Mark Lane, London, E.C. 3, dealers in tallow, oils, and turpentine. *Controller:* Percy Woodthorpe, Leadenhall Buildings, 1 Leadenhall Street, London, E.C. 3. Winter & Almenraeder, 48 and 49 Great Sutton Street, London, E.C. 1, importers of vulcanite, etc., successors of H. Traun & Sons, 25 Goswell Road, London, E.C. 1, manufacturers of ebonite. *Controller:* James Durie Pattullo, 65 London Wall, London, E.C. Orders have been made by the Board of Trade for the realisation and distribution of the assets of the following business: British Ferrottype Co., 246, 248, and 250 Waterloo Road, Blackpool, manufacturers of cameras, etc. *Controller:* John Grant Gibson, Byrom Street, Manchester.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham.

The local Coal, Gas, and Fuel Bureau, established under the Defence of the Realm Regulations, has its location at the "Pitman" Hotel, Corporation Street. This should be easy to remember.

The Military Medical Board has gone over to the Council House from the Curzon Hall, where the accommodation is more convenient for the examination of the older men who are now being called up.

The pharmacies of our city are becoming an Adamless Eden, and quite smart do the assistants look with their variegated overalls and dainty jewels, and often an unpretentious but beautiful flower on their chest.

The death is announced of Mr. W. H. Wilkinson, F.L.S., a well-known botanist and entomologist, who lived at Sutton Coldfield, and whose park is the delight of all such worthies. He was one of the earliest members of the Vesey Club (in conjunction with the late Professor Hillhouse), and was a Fellow of the Botanical Society of Edinburgh and F.R.M.S.

The city analyst has lately directed attention to egg-substitutes, and finds that some of them are not what they purport to be—viz., alternatives. The fat present in them was very deficient, and apparently they were only baking-powders. Finely divided sawdust at 1s. per lb. was recommended (the found) to grease bakers' tins with, and a bread-improver consisted chiefly of maize flour and Epsom salt.

Leeds.

Business is still very good. Some men have wisely taken advantage of the holiday season to have a few days off in anticipation of the winter.

The demand for face-creams "*et hoc genus omne*" in the city is still insatiable, and in many shops the more popular varieties are kept out of sight to prevent too rapid sales.

Mr. G. Jackson, Woodhouse Lane, is one of the latest pharmacists to join the Masonic craft. His chemist brother-in-law from Lincoln came up to see him successfully "raised."

The many friends of Mr. J. R. Bentley ("Bell" Pharmacy), Kirkgate, have congratulated him on hearing that his only son, who was officially reported killed some two months ago, has now written home saying he is an unwounded prisoner of war in Germany.

The members of the Leeds Chemists' Association have lost no time in ceasing to stock a certain well-known embrocation, and they express great satisfaction that the wholesale distributors have taken such a firm stand in the matter. The Association will not be satisfied with the reinstatement of the two patent houses primarily concerned, but are now out for a living profit on the article also.

The wives of two chemists whose husbands have been called up for service are "carrying on" bravely. The pity is that these men who have left good businesses have to wait so many months "killing time" before employment for which their qualification fits them is forthcoming. In one case a local chemist was nearly eight months at Blackpool "on light duty" before he was transferred to a hospital dispensary. The anomaly is that qualified men have under them girls with the "Hall" qualification or only V.A.D. training, earning 2l. or 3l. per week against the Army pay which pharmacists receive.

Liverpool.

The cold snap has brought cough linctus to the front again.

Toilet-soap forms an increasing window-display, and the public are being educated to trust to the chemists' recommendation and knowledge.

"What are you doing about glycerin?" was the greeting to a Liverpool pharmacist when he looked in upon a fellow-chemist at a watering-place this week. His reply was, "We are learning very slowly how to drag along without it."

A man of good address is calling on chemists and druggists and, presuming on their universal benevolence, asking for a loan of 2l. to carry him on to a Lancashire town (single fare 5s.), where he claims to have received a Government appointment to some unspecified post. He offers to deposit a showy ring as ample security. Reference to a pawnbroker does not please him.

A young lady applied to a suburban pharmacist for turpentine to remove red paint from her black-and-white striped skirt. There was diffidence about selling turpentine for a use that did not seem to be covered by the term "medicinal." With cotton-wool and turpentine, however, the handy drug-man removed both the paint and some of the stripes from the soiled garment.

Sheffield.

A serious item in establishment expenses is the notice served by the Electric Light Department, intimating an increase of 10 per cent. on present prices where the charge is over 2d. per unit, and 35½ per cent. where the present price is less than 2d.

There is a suspicion that some panel doctors are giving medicine and charging the panel patient for it. Any evidence of this practice would be welcomed by the Pharmaceutical Committee, either through the patients themselves or the chemist who hears of it.

A fire occurred at the Spring Street works of Burdall & Burdall, manufacturing druggists, on August 30. The works adjoin the Union Dispensary Stores, but, being opposite the fire station, the fire was promptly dealt with, although damage to the extent of 500l. was done.

The medical officer of health is issuing circulars regarding the scheme for the treatment of venereal diseases. He states that the Royal Infirmary, Royal Hospital, Jessop's Hospital, and the Children's Hospital are open for treatment without the production of "hospital recommends."

A discussion is going on in the columns of the "Yorkshire Telegraph" regarding the calling-up of chemists. On the one side there is talk of the exempting of men to sell toilet-creams and tooth-pastes, and on the other side are many defenders of the real position of chemists as guardians of the public.

Mr. H. A. L. Fisher, President of the Board of Education, is to stand as Liberal member for the University, which is included in the Northern Group, and Sir Martin Conway, the explorer, as the Conservative candidate. Two members have to be elected on a system of proportional representation.

There is some uneasiness in the minds of the chemists of the earlier military age at not having received exemption from Volunteer duties. Chemists holding certificates of exemption before the Military Service (No. 2) Act, 1913, will not be called upon as Volunteers, unless their certificates are challenged by the National Service Representative, which is not at all likely.

Miscellaneous.

DISPENSERS' SALARIES.—The Guardians of St. Pancras, London, have decided to grant their dispensers the revised scale of war bonus as recommended by the Conciliation and Arbitration Court for Civil Servants.

BOTANY LECTURES.—A course of lectures in botany suitable for pharmaceutical students is to be given at the Manchester University on Wednesday evenings (7 to 9.30 p.m.), beginning on October 9. The fees are: for the lectures only, 10s. 6d.; for the lectures and practical work, 1l. 11s. 6d.

POOR-LAW DISPENSING.—In the "Poor-Law Officers' Journal" there is an advertisement for a head nurse at the Hanwell Poor-Law schools, whose duties include dispensing medicines under the direction of the medical officer. We hope the Local Government Board, in the interest of the children, will hesitate to sanction such an arrangement.

CHEMICAL INDUSTRY CLUB.—New premises for this club have been taken at 2 Whitehall Court, London, S.W. The club has been carried on for the past year, but up to now has not had its own premises. The members are connected with the Society of Chemical Industry, and the present move is in no way inimical to the larger national scheme which is expected to mature after the war.

DECIMAL COINAGE.—A Commission has been appointed to consider whether it is advisable to make any change in the denominations of the currency and money account of the United Kingdom, with a view of placing them on a decimal basis; and whether, if an alteration of the present system is recommended, it is desirable to adopt, with or without modification, the proposals embodied in Lord Southwark's Bill recently introduced into the House of Lords.

NATURALISED ALIENS.—The Home Secretary has appointed the Committee referred to in Sub-section (4) of Section 7 of the British Nationality and Status of Aliens Act, 1914, as amended by the British Nationality and Status of Aliens Act, 1913, to deal with the question of revoking certificates of naturalised aliens. All communications intended for the Committee should be addressed to the Secretary, Certificates of Naturalisation (Revocation) Committee, Home Office, Whitehall, London, S.W. 1.

INCREASE IN CHEQUE-DUTY.—The increase to 2*d.* on the stamp-duty on cheques came into force on September 1. Existing cheque forms bearing a 1*d.* stamp may be used, provided the person drawing the cheque affixes in addition an ordinary 1*d.* postage-stamp and cancels it. The postage-stamp should be affixed at the place of signature, and the drawer of the cheque should sign across it. A period of grace is allowed till December 1, within which a person receiving a cheque which is liable to the 2*d.* duty, but is stamped with 1*d.* only, may rectify the omission of the drawer by affixing and cancelling a 1*d.* postage-stamp.

IN THE COURTS.—At Marlborough Street Police Court on August 30, a man named Jacobs was sent to prison for six months, with hard labour, for having cocaine in his possession. He was not an "authorised" person, and had been detected trying to sell cocaine to persons in the street.—At East Ham Police Court on August 30, a plumber named Searle was fined 10*s.*, or seven days, for taking a bottle of glycerin from a ship upon which he had been working in the Royal Albert Docks.—At Lambeth, on September 2, Reginald Tanner, Albany Road, Camberwell, was remanded upon a charge of stealing and receiving from some person unknown 16 cwt. of paraffin-wax, valued at 45*s.*

BRITISH PROPERTY IN RUSSIA.—A register of claims by British subjects to property or other interests in Russia has been opened by the Foreign Claims Office, Foreign Office, S.W. 1. All persons, firms, and companies of British nationality owning property in territory which on August 1, 1914, formed part of the Russian Empire, or having claims against the Russian Government (including any Government exercising *de facto* authority in any part of that territory), or against any person, firm, company, or municipality in that territory, should record their claims with the Foreign Claims Office, from which Office the necessary forms can be obtained.

SPHAGNUM-MOSS HARVEST.—“The Times” this week printed a picturesque account of the collection on Dartmoor of sphagnum moss for surgical purposes, from which we quote the following:

Often knee-deep in the great bogs and mires for miles round a man, who has devoted himself to the work, labours daily in fair and foul weather. Nearly 5,000 sacks has this devoted worker collected since last spring, and his masses of material come from the moor up to an asphalt lawn-tennis court at Princetown, where the officers of the convict prisons took recreation in pre-war times. Here men and women spread and turn the masses of the moss day by day, and their difficulties are great in the wet weeks, for sphagnum is the most absorbent of vegetable things, and this surgical virtue means that one storm of rain will waste a week of sunshine. But it reaches a good measure of dryness at last, and is then carried to the *depôt*—a house of many rooms hard by, taken for the purpose, sweet with whitewash and antiseptics, heated by hot air from a furnace, and full of women clad and capped in spotless white. The moss has shed its lustre now, the ivory and green and gold have faded, and it is reduced to the colour of ripe hay. Here it is spread on a grille above a system of hot-water pipes, and rendered crisp and springy. Thus perfected, it is dispatched to the hospitals for further treatment; but the *depôt* is not content with being the largest centre of distribution in England; dressings are also made, and the laborious treatment of the moss followed in every particular until the finished dressings have been completed. Three hours' careful work goes to each. The moss is first picked over, and every shred passes through a woman's fingers, to remove grass and twigs and the thousand fragments from the heath buried in its soft masses. The pure stuff is now ready for the dressings, and two ounces of moss go to each little, flat muslin bag, 10 inches by 14. They are then passed through a solution of corrosive sublimate by a worker in rubber gloves, squeezed through a little mangle, and dried again, that they may return to the specified weight, for after the bath they are two ounces too heavy. Now, perfected, the dressings are made up into packets of a dozen each, and wrapped in two papers; and, finally, for overseas, they are packed in bales of a hundred dressings covered with waterproof sheeting, through which no germ can penetrate.

GERMAN POPULATION PROBLEM.—Two draft Bills which have been submitted to the Reichstag have as their object the eventual improvement of Germany's population statistics. The first deals with the combating of venereal disease, and among its provisions forbids treatment and advertising by quacks, under heavy penalties; the second prohibits the manufacture, sale, or use of devices to prevent conception or to interfere with pregnancy.

Irish News.

Pharmaceutical Society of Ireland.

The following are the latest dates for lodging applications for the October examinations: Thursday, September 19, for the Preliminary examination; Tuesday, September 24, for the Registered Druggist examination; Wednesday, September 25, for the Pharmaceutical Licence examination; Monday, September 30, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar by 11 a.m. on the respective dates.—Intending new candidates for election to seats on the Council will please note that their nomination papers must be in the Registrar's hands by 12 noon on September 23.—The Society's schools will re-open on October 1.

Brevities.

A letter will be considered at the next meeting of the Cork Corporation regarding a complaint that some chemists' shops are not complying with the Early Closing Order.

Dr. James Ashe, Ph.C., who was for many years Professor of *Materia Medica* to the Pharmaceutical Society of Ireland, presided at a complimentary lunch to Colonel Arthur Lynch, M.P., which was held at the Shelbourne Hotel, Dublin, last week.

A prosecution under the Sale of Food and Drugs Acts took place at Poyntzpass, co. Armagh, on September 2, in which a shopkeeper named Allen was charged with selling cornflour which consisted of rice flour. Sir Chas. Cameron, called for the defence, said that cornflour is nothing but starch, and that rice flour was as good an article as maize flour. The Magistrates dismissed the case.

The Guardians of the South Dublin Union decided some time ago to allow Miss Toher, compounder in the workhouse, 14*s.* per week as a war bonus, the same amount as given to male employés. The Local Government Board now intimate that according to the scale fixed by the Treasury and the Conciliation and Arbitration Board Miss Toher is not entitled to the same bonus as the male employés.

Scottish News.

Dundee.

A well-known Dundee chemist celebrates this month his silver wedding and the birthdays of his three daughters. This is surely a record.

The members of the Dundee and East of Scotland Pharmacists' Association have been notified of the decision of the Proprietary Articles Trade Association regarding the sale of Elliman's embrocation, and have been asked to support the P.A.T.A. in this matter.

Edinburgh.

Chemists in Edinburgh and Leith will close all day on September 16, the autumn holiday.

Lieutenant-Colonel John Hay Maitland Hardyman, M.C., who has been killed in action, was Assistant Professor of Botany at the University at the time he joined the Forces in August 1914.

Peat will be available for use by Edinburgh householders, a supply having been stacked at a site near the city. A considerable saving of coal is expected from the use of peat during the coming winter.

“When I think of all the films I might have sold this year,” said a chemist the other day, “I feel almost as mad as a pharmacist of the long ago, who accidentally discovered that for years a neighbouring rival had been selling extra-strong seidlitz powders with only 38 gr. of tartaric acid in each white paper.”

Glasgow.

Paterson & Co., Ltd., have given the contents of their “Clensel” stand at the British Industries Fair for the benefit of the “Evening Times” prisoners of war comforts fund.

The writer of “Gossip and Grumbles” in the “Evening Times” declares that he will prize more than ever the little tortoiseshell snuff-box (now a saccharin carrier) which a young lady in a city chemist's referred to when refilling it as “a swanky wee box.”

An Italian ice-cream maker was convicted at the Sheriff Court on August 28 for using milk-powder in the manufacture of water ice. The question of whether milk-powder is milk, the use of which is prohibited in the manufacture of ices, is to be submitted to the High Court.

The British Industries Fair, which closed on August 31, was visited throughout the fortnight by about 160,000 persons. It is understood that a sum of over 600*l.* will be handed over to the Prisoners of War Fund, the charge for admission in the evenings being devoted to that purpose.

French News.

(From the "C. & D." Paris Correspondent.)

WHOLESALE DRUGGISTS' ASSOCIATION.—At the first general assembly of the Wholesale Druggists' Association held since the war (the last was in June 1914), some observations were made on the work of this body since the outbreak of hostilities. One object of the Association has been to obtain the prohibition of the exportation to neutral countries of drugs and chemicals likely to prove useful to the enemy. It was thus that the objections to the export of *Fucus crispus* and of aloes were presented to and admitted by the authorities, as well as of cecadilla, used by the Germans for the production of sternutatory shells. Another point gained was to induce the Ministry to class pharmaceutical products in the first category for transport (urgent goods) instead of in the third, and thus assure the prompt delivery of necessary drugs, etc. From time to time the Association has approached the Government to assure the supply of the raw material and products necessary to the drug-trade. It was thus that the attention of the authorities was drawn to the question of the embargo placed by Great Britain on cinchona.

WOMEN IN PHARMACY.—One consequence of the war, or rather, of the mobilisation of all the younger manhood of France, has been the great increase in the number of female chemists' assistants. In many pharmacies the staff is composed of holland-bloused ladies working under the supervision of a pharmacist over military age. The advertisements in the pharmaceutical Press indicate that all of these ladies are not entirely new to the business. For instance: "Pharmacist's wife, well up in the business, seeks a situation in a good-class Paris pharmacy"; "Young wife of mobilised pharmacist, businesslike, used to counter-work, prescriptions and serving customers, seeks situation as assistant in a good pharmacy, preferably Parisian or suburban." I noticed recently at the Paris School of Pharmacy a poster calling attention to the fact that the lady students of the Quarter have now an Association of their own—55 rue St. Jacques. In view of the difficulties encountered by the fair sex in obtaining preliminary education in chemistry, physical sciences, etc. (the notice states), preparation classes in these subjects have been organised at the Association for intending candidates for examination.

HERB-CULTIVATION.—At the first meeting of the Medicinal Herbs Committee, held at the Ministry of Commerce, Professor Costantin (of the Natural History Museum) took the chair, and M. Gabriel Bertrand (of the Academy of Sciences) the vice-chair; but the inaugural address was delivered by the Minister (M. Clementel) in person. He alluded to the good work already done by the Wholesale Druggists' Association, and especially by its President, M. Michel. He trusted that druggists and pharmacists would support the movement, and suggested that central drying-houses and markets should be organised. M. Costantin said that the cultivation of exotic plants might be carried on in the French colonies. Special Sub-Committees are to study this point, as well as the question of the home culture and gathering of wild plants. M. Michel insisted on the importance of ascertaining the exact requirements of the French drug-trade as a basis for action, and of drawing up a complete list of plants. M. Prothière pointed out how pharmacists having botanical knowledge could give useful hints; and M. Crinon, as representative of the French Pharmaceutical Associations, assured the Committee that he and his colleagues were quite ready to help in every way.

PERSONAL.—Professor Behal, of the Paris School of Pharmacy, has terminated his brilliant career as Director of the "Office des Produits Chimiques et Pharmaceutiques." The recent death of Senator Astier deprived the Board of Direction of the Office of its Vice-President, and M. Behal has been promoted to fill this vacancy. His former post as Director of the Office is filled by Professor Fleurant, of the Arts et Métiers school. M. Bolley, Director of Customs, has been given a seat on the Board of Direction of the Office, and M. Henry Dalby (a manufacturer) has been appointed Secretary. The Office has been removed from the School of Pharmacy—its home since its foundation in 1914—to the Ministry of Commerce.—M. Charles Moureu, having accepted a professorship at the Collège de France, has now formally vacated the chair of Pharmaceutical Chemistry at the Paris School of Pharmacy, a post he had held since 1907. M. Paul Lebeau, formerly Professor of Toxicology at the School, has been nominated to the vacant chair.—M. G. Patcin, the well-known Parisian hospital pharmacist, who is an active member of the Society of Pharmacy, has been elected to the Academy of

Medicine, where a vacancy was created some time ago by the death of Professor Jungfleisch.

A MILITARY PHARMACIST OF THE FIRST REPUBLIC.—Very topical and suggestive are the old letters addressed to the pharmacist Dizé, discovered recently by his great-grandson, Major Guiot, in the garret of the family residence at Sézanne, and communicated by M. Balland (himself an army pharmacist) to a French pharmaceutical journal. They cover the war-period of 1792-1801. The first summons Dizé, "in the name of the nation," to report himself at the "camp near Paris" and fulfil his functions as pharmacy cadet "with all the punctuality and patriotism which he owes to citizens armed to defend their native country." The second sends him to St. Denis as assistant-apothecary; thence he returns to Paris to a post at the Ecole Militaire. In December 1794 he is told off to accompany Parmentier and Solvet, and to go abroad to buy medicaments for the army. Then we have his passport—very much like those we now take out to travel abroad—describing his black hair and eyebrows, brown eyes, prominent forehead, "average" nose and mouth, round chin, and oval visage. He is going to Switzerland, Genoa, and Leghorn to provision the pharmacy stores of the military hospitals of the Republic, and is authorised to absent himself from the territory of the French Republic for nine decades (ninety days) only. On the 14th Brumaire of the Year IV. (November 5, 1795) Dizé is named by the Comité du Salut Public to be head of the General Store of Medicaments and Pharmacy Laboratory at the Champs de Mars, Paris—this is, of course, what is now known as the Central Pharmacy of the French army, modernised and transferred to the Invalides in 1900. He is to receive 400 livres a month. Three months later a flattering letter from the Army Health Council acknowledges Dizé's patriotic offer to teach pharmacy at the new school of army medicine at Val-de-Grâce. "It is quite natural," write Parmentier, Bayen, and their colleagues, "that he who does his duty so well should teach others how to do theirs." But the moment for decision had not come, and when it came Dizé was passed over in favour of Brogniart and others. Finally, we have Dizé's letter of discharge (7th Pluviose, Year X., January 21, 1802), in which Parmentier, Heurteloup, and Coste regret that the diminution of effectives compels this measure. Dizé is thanked for the "distinguished services" he has so long rendered in the military pharmacies, where his knowledge and experience will "represent an epoch in this interesting branch of the Service." From a number of diplomas and certificates annexed we learn that Dizé was a Gascon from the Landes; that he was assistant to Moringlane, a Parisian apothecary, from 1781 to 1784; that he was thirteen months with Delondre, another Parisian pharmacist, and preparator to Darcet at the Collège de France from 1784 to 1791. The eminent chemist bears witness to Dizé's "assiduity and special intelligence," as well as to his "good character, probity, and qualities which characterise a good, loyal, and honest citizen."

New Books.

Wakeman, Nellie. *Plant Chemistry for Pharmacy Students*. 9 in. x 5½ in. Pp. 54. Paper covers. (University of Wisconsin, Madison, U.S.A.) [Dr. Edward Kremers, who sends us Dr. Wakeman's pamphlet, reminds us that it is not a text-book in the ordinary sense. It is, in fact, an expansion of the syllabus of the course for pharmacy students on plant chemistry. The chapters are devoted to such subjects as water, enzymes, inorganic constituents and ash, phytochemical analysis by selective solvents, resins, fatty oils, alkaloids, etc. The guide must save the Wisconsin students a lot of time in note-taking, and its adoption by other teaching institutions is worth serious consideration.]

White, W. Hale. *Materia Medica, Pharmacy, Pharmacology, and Therapeutics*. Sixteenth edition. 6½ in. x 4 in. Pp. xii + 716. 7s. 6d. net. (London: J. & A. Churchill, 7 Great Marlborough Street, W. 1.) [Dr. Hale White's book was first published in 1892, and the present edition is the sixteenth. The alterations necessitated by the publication of the B.P. 1914 have been incorporated in the work, and Appendix No. III. deals with the preparations withdrawn from the British Pharmacopœia last year, and has reference to the Cocaine and Opium Regulations, the Narcotic Drug Order, the supply of cocaine eye-drops to factories, and the prohibition of the use of cereal starch for other uses than human food. The book is a useful one by reason of its convenient size and the concise form in which the medicinal properties of the drugs are dealt with.]

German News.

TOBACCO SUBSTITUTES AD INFINITUM.—Red cabbage, relates a provincial paper, has been smoked in error for tobacco.

COAL-TAR DERIVATIVES.—Experiments in the better utilisation of coal for synthetic products are stated to have been referred to at a general meeting of the Th. Goldschmidt Co., Essen. This company has amalgamated with others to form an association with a capital of 30,000,000m.

FERTILISERS.—The prices of ammonium nitrate and soluble phosphoric acid have been officially revised with the object of restricting the manufacture of mixed manures, which have of late been brought forward solely in the interests of the manufacturers. A new artificial manure, consisting of humus and lime treated with nitrogenous bacteria, has been put on the market.

SAPONIN FROM HORSE-CHESTNUTS.—The "Zeitschrift für angewandte Chemie" recently described the extraction of saponin from horse-chestnuts. The horse-chestnuts are chopped into small pieces and dried. They are then treated with benzine, and boiled down with alcohol. In cooling, the extract deposits saponin. The residues can be made into starch-flour, which is excellent for feeding animals.

POTASH-SUPPLIES.—It is announced that orders for 20, 30, and 40 per cent. potash manure salt, 48-51 per cent. sulphate of potash, and 26-29 per cent. sulphate of potash and magnesia will not be accepted by the Potash Syndicate until further notice. Orders for 12-15 per cent. kainite and 50-53 per cent. chloride of potash will be accepted if for immediate delivery. The consignee must, however, reckon upon a delay of two to three months in delivery. The possibility must also be reckoned with that no more manure salts with 30-40 per cent. potash will be manufactured for a considerable time, and that the available stocks will soon be sold out, with the result that orders for chloride of potash will again be stopped.

EXPORT-TRADE PROJECTS.—The Imperial Economy Office has instituted a foreign-trade company (Aussenhandels-Gesellschaft), with headquarters in Berlin. The object of the company is to enable German commerce and industries to take part in export trade when it is revived, especially to countries hitherto hostile. The company is semi-official in character, and has been founded by great economic associations of commerce and industries with the especial co-operation of the Central Association of German Wholesale Trade and the Association of German Exporters. The directorate is to consist of eight representatives of commerce and industries and eight deputy-representatives who will be nominated by the Imperial Economy Office.

SODA SHORTAGE.—It is stated in the "Pharmazeutische Zeitung" that in the glass-industry an attempt has been made to replace the necessary soda for glass manufacture (sodium carbonate) by Glauber's salt. This presents, however, many technical difficulties, and it is only with great trouble that white glass can be produced. At all events, Glauber's salt is only a very insufficient substitute for soda in the glass-industry, and a still worse one in the washing-media industry. It has no cleansing power, and it is rightly feared that the iron contained in it turns the linen yellow. Soda can only be adequately replaced for washing purposes by potash—that is, by carbonate of potassium—which even in peace-time was out of the question on account of its high price.

STANDARDISING PRICES.—The supply of medicines in North Germany has, says a local paper, been sufficiently provided for by the discovery of substitutes for such old remedies as cannot be obtained from abroad or produced at home; but to this statement is added another that is hardly in accordance with it. Drugs and medicinal plants are to have standard prices affixed to them, and these will be imposed upon both producers and dealers. The German regulations are apparently to apply very widely indeed, if not universally. Among the medicinal plants affected are peppermint, fennel, valerian, marshmallow, caraway, tarragon, marjoram, and thyme. In Austria it is announced that the year's poppy crop is to be expropriated by the State for the sake of its oil.

NEW CHEMICAL COMBINE.—The "Hamburger Fremdenblatt" publishes a communication criticising from the point of view of the wholesale chemical and drug trade the formation by the Berlin Central Association of Chemical Manufacturers of a new company, which, the writer fears, signifies a combination of small and large consumers that will eventually eliminate the wholesalers and provide its members directly with raw materials. This object may not be entertained at present, but the danger is none the less real. As the chemical-factories have always been well

served by the wholesalers, there seems no reason for altering the existing system. The wholesalers are recommended to defend themselves by improving their trade associations and combining them into a strong organisation.

NEW SOURCE OF FAT.—The "Frankfurter Zeitung" recently contained a detailed account of the new source of fat discovered in the vegetable world by Francé, the head of the Biological Institute of Munich. Francé maintains that 1,200,000 kilos. of good oil could be extracted from plants growing in waste lands. This oil, named by him "Edaphon," has been tested and found fully equal to coconut oil. It could be used for technical and medical purposes, etc., and has valuable by-products. It is said that it could be procured in quantities from Hungary and the Dobrudja. The Imperial Fat Office has declared itself ready to exploit the discovery after the war, but Francé has discovered a process by which the oil can be extracted without the use of alcohol, so that the work could be begun at any time, and at very small expense.

"HOW TO BEAR HUNGER."—An advertisement with this heading in the daily Press extols the virtues of "Eusitin tablets," explaining that, "without constituting a substitute for the daily minimum amount of food, Eusitin is a wonderful chemical preparation which appeases untimely feelings of hunger and thirst and enables one to wait for the next meal. Eusitin is much used in high military and social circles. Every soldier in the field, on the march, or on guard, etc., also every person who has long intervals between meals, should carry a box of Eusitin; one to two tablets taken at intervals of one to two hours are sufficient to overcome the pangs of hunger and its (sometimes most severe) consequences (stomach and intestinal troubles) until the next meal can be obtained. Price 2.75m. per box, containing fifty tablets (sufficient for six to eight days). To be obtained from all chemists or from the factory of —."

CHEMICAL COMPANIES' REPORTS.—The Chemische Fabrik, Billwärder, formerly Hell und Stämer A.-G., Hamburg, shows in its financial report for the year 1917 a net profit of 5,502m. No dividend was paid.—The financial report of the Chemische Fabriken, late Weiler-ter-Meer, Uerdingen, shows gross receipts of 5,660,000m., and a net profit of 2,150,000m. A dividend of 12 per cent. was paid, and a balance of 110,513m. was carried forward.—Griesheim-Elektron Chemische Fabrik, Frankfurt-a-M., reports for the year 1917 a gross profit of 15,866,262m., and carries forward a balance of 1,362,366m.—The Union Fabrik Chemischer Produkte in Stettin is reported by the "Kölnische Zeitung" to be suffering from shortage of raw materials. The prospects of business after the war are also not very bright, for the acceptance of orders will depend on the possibility of the importation of foreign phosphates.—It was announced at a general meeting of the Oker and Brunswick Chemical Works Co., Oker-a-H., that the dividend would be 12 per cent.

Gazette.

Bankruptcy Acts.

RECEIVING ORDER.

POWELL, W. G., Hants County Asylum, Knowle, Fareham, Hants, lately at High Street, Fordingbridge, Hants, chemist.

Bankruptcy Report.

Re Harry Saville Thorne, Selby, described as a chemist.—Debtor appeared at the York Bankruptcy Court on August 30 for his adjourned public examination. Mr. A. S. Milward (Deputy Official Receiver) said that on July 26 debtor was duly notified to furnish within twenty-one days cash and trading accounts relating to his business. No such accounts had been prepared, and on August 29 the Official Receiver received a letter saying that debtor had found it absolutely impossible to prepare such accounts as he had no books in his possession. After being questioned debtor admitted having said that if he could have obtained a loan of 47l. 12s. 10d. on April 29 last he would have turned the corner, but he did not remember having on the same occasion stated that his total liabilities were only 90l. The Registrar, in further adjourning the case to the next court, informed debtor that if he did not voluntarily supply the statement of accounts desired he would probably be compelled to do so.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

BARNES' CASH DRUG STORES, LTD. (P.C.).—Capital 500*l*. Objects: To carry on business as chemists, druggists, etc. R.O., 182-3 Temple Chambers, London, E.C. 4.

VALLEY PERFUMERS, LTD. (P.C.).—Capital 1,000*l*. Objects: To carry on business as manufacturers of and dealers in toilet requisites, chemists, druggists, perfumers, etc. R.O., 2 Great Winchester Street, London, E.C.

POLMAR PERFUMERY CO., LTD. (P.C.).—Capital 3,000*l*. Objects: To carry on business as manufacturers, importers and exporters of and dealers in, wholesale and retail, liquid perfumes, essences, oil and materials, dry perfumery, scint-sachets, face-powders, toilet-preparations, etc. R.O., 234 Old Bailey, London, E.C.

WASTE METALS AND BY-PRODUCTS, LTD. (P.C.).—Capital 75,000*l*. Objects: To carry on business as discoverers, patentees, and producers of process for extracting tar, etc., from the carbonisation of coal, and, *inter alia*, to carry on business as chemists and druggists. R.O., Spencer House, 4 South Place, London, E.C.

JOHN F. CARMICHAEL & Co., LTD. (P.C.).—Capital 25,000*l*. Objects: To take over the business of chemical engineers and contractors carried on at Tower Buildings, Liverpool, as "John F. Carmichael & Co.," and the similar business carried on at the same address as "Carmichael & Guillaume," together with certain patents, etc., of H. N. Leask.

VIVAMOL, LTD. (P.C.).—Capital 2,000*l*. Objects: To carry on business as growers and importers of and dealers in fibre of all kinds, manufacturers and sellers of patent and other medicines, chemists, druggists, etc. The Board of Trade have authorised the acquisition by this company of part of the undertaking of Vixol, Ltd., books and documents of which are liable to inspection under Section 2 (2) of the Trading with the Enemy Act.

UNITED KINGDOM OIL AND OIL SEED BROKERS' ASSOCIATION, LTD.—Capital 150,000*l*. Objects: To make and carry out arrangements with the Ministry of Food as to the purchase, sale, realisation, and distribution of and dealing in articles in respect of which Orders under the Defence of the Realm Regulations have been or may be issued by the said Ministry, and which the Director of Oils and Fats may require to be sold, purchased, or distributed. Solicitors: T. Cooper & Co., 21 Leadenhall Street, London, E.C.

BOOTS CASH CHEMISTS.—In consequence of the shortage of paper and the depletion of staffs, the various associated companies have decided to revert to half-yearly instead of quarterly dividends: the next dividends will therefore be paid January 1, 1919.

JOINT-STOCK COMPANIES.—Notice is given in the "London Gazette," September 3, that the names of the undermentioned companies have been struck off the Register and the companies dissolved: Bioprics, Ltd.; Lady Blount's Medical Aid Society, Ltd.; Lancashire Drug Co., Ltd. (registered September 20, 1910); London and Hull Soap Works, Ltd.; Lynrock Natural Mineral Water Syndicate, Ltd.; Plowden's Drug Stores, Ltd.; Pontypridd Herbal Brewery Co., Ltd. (registered May 23, 1909); Standard Kieselguhr Co., Ltd.; Turpentine, Ltd.; Vidal Dyes Syndicate, Ltd. The following companies will, unless cause is shown to the contrary, be struck off the Register and the companies be dissolved after December 3: Anti-Rheumatic Cushion Heel Pad Co., Ltd.; Dental Anæsthetic Supply, Ltd.; Medical Magazine, Ltd.

DYE-MAKERS' AMALGAMATION.—At a special meeting of the shareholders of British Dyes, Ltd., held at Huddersfield on August 21, it was decided to amalgamate with Levinstein, Ltd. Mr. J. Falconer, M.P., chairman of the directors, was in favour of a plan involving a working arrangement only, but Mr. G. P. Norton, one of the directors supporting the amalgamation scheme, succeeded in convincing the meeting that this plan promised the greatest success. The chairman and five other majority directors, who had supported working arrangements, then placed their resignation before the meeting, and a Committee of seven, representing various sections of dye-users, was appointed to adjust the agreement with Levinstein, Ltd., for amalgamation, and take steps to carry it into effect. It was also suggested that the board should consider the appointment of two additional directors to comply with the articles of association.

Personalities.

MR. W. S. GLYN-JONES, M.P., Secretary of the Pharmaceutical Society, will address the members of the North London Pharmacists' Association on October 10. "The subject matter," states "The Script," "will be of dramatic importance to pharmacy."

MR. P. F. ROWSELL, chemist and druggist, Exeter, was on September 2 re-elected Chairman of the Devon Insurance Committee. At Mr. Rowsell's request the Committee reaffirmed the opinion expressed last year that a Ministry of Health should be established.

MR. HUGO WOLFF, in No. 3 of "Square Topics," reports on the proceedings at the August Council-meeting of the Pharmaceutical Society. He remarks: "I should like to record here that certain members of Council have already commenced to challenge the accuracy of the voting I have published. This is a hopeful sign, for without doubt I shall have several supporters when, at the October meeting, I shall move a resolution that the voting be recorded in the minutes and published in the official report."

MR. LEWIS STROUD, M.A., of Crookes Laboratories, Elgin Crescent, London, W., referring to the London police strike in a letter to the "Daily Telegraph," writes:

Last evening these laboratories were visited by seven policemen on strike, and one of their number, in the vain endeavour to persuade one of our head chemists to neglect his duty as a special constable, intimated that non-compliance with this suggestion might entail physical incapacity. The threat, if carried out, would seriously cripple the supply to the Navy, the Army, and some hundreds of hospitals of the colloidal medicines in the preparation of which we have beaten the Germans. Do such police pickets know and consider what such action on their part means? Many of the specials have grievances at least as great as those of the regular constables, which we hope to remedy after the war, but meanwhile the course of duty is obvious. With what tale shall I meet my son, an officer in the Regular Army who has fought through the war on such pay as the country allows, if I leave duty and desert in the face of the enemy?

Mr. Stroud is a special constable in the "E" Division of the Metropolitan Police Force.

MRS. PUMPHREY writes as follows to the "Westminster Gazette":

My son, Theodore Pumphrey, has this month completed two years in prison. He was trained from his infancy in Quaker principles, his parents and ancestors on both sides of the family having been Quakers for several generations. He was educated at Ackworth Quaker School. He became a pharmaceutical chemist, passing his Minor and Major examinations. When war broke out he had a good position with Messrs. Allen & Hanburys. He felt he must leave it immediately and take the training at Jordan's offered to young Quakers for ambulance work to aid the wounded in France. In a few weeks he donned his khaki outfit and sailed over in the *Perseus*, which stopped in the Channel to rescue soldiers from a torpedoed vessel. For about six months he worked with the Friends' Ambulance Unit, until his own savings were used up. Then he returned to England, and for some months took *locum tenens* situations with chemists, to earn more money to enable him to return and give his services as a qualified chemist free to the unit. He understood that the exemption he received in the unit was absolute. He with some others had appealed on conscience grounds, not occupational grounds. When he discovered that the exemption was only conditional on remaining in the F.A.U., and he saw men in England being arrested and sent to prison, who had the same conscientious objections as himself—but who could not join the F.A.U. work—he deliberately gave up his position as chemist to the F.A.U., which had a week or two before become a paid position, and came over to England to go before his Tribunal at Tottenham. His case was heard June 21, 1916, and absolute exemption was granted, but the Military Representative appealed against this decision. At the Westminster Appeal Tribunal on July 10, 1916, absolute exemption was refused, but conditional exemption under the F.A.U. was offered, which he did not feel able to accept. In due time Theodore Pumphrey was arrested and sent to Wormwood Scrubs. He is now in Wandsworth Prison, having just completed two years' hard labour.

HECKMONDWIKE CO-OPERATIVE SOCIETY reports a profit in the drug department during the past quarter of 5*s*. 5*d*. in the pound.

Births.

HALL.—At Dunluce Street, Larne, on August 10, the wife of John Hall, Ph.C., of a son.

McLOUGHLIN.—At 157 Oldpark Road, Belfast, on August 26, the wife of S. McLoughlin, Ph.C., of a daughter.

NIGHTINGALE.—At 31 Cowper Road, Portsmouth, on August 24, the wife of Lance-Corporal C. Nightingale, R.E., B.E.F., France, of a daughter.

WORDSWORTH.—At 15 St. Michael's Crescent, Headingley, Leeds, on August 31, the wife of F. E. Wordsworth, dispensing chemist, of a daughter.

Marriage.

SMITH—HAWKINS.—At the Bloomsbury Baptist Church, on September 3, by the Rev. Herbert Kenward, Joseph de Carle Smith, B.Sc., A.I.C., M.P.S., elder son of Mr. J. de Carle Smith, Norwich, to Rosalie Nora, elder daughter of Mr. S. L. Hawkins, J.P., Wallingford.

Deaths.

HARRISON.—At Grayshott, Hindhead, Surrey, on August 30, Mr. Richard Casswell Harrison, Ph.C., aged fifty-five. Mr. Harrison, who died after a long and painful illness, was well known in London, where for a number of years he carried on business as Frost & Harrison, Lee Green, Eltham. He is survived by his widow and a son and daughter. The funeral took place at Grayshott on September 1.

MARTIN.—On August 22, Mr. C. B. Martin, chemist and druggist, of Barnard Castle, aged eighty-one. Mr. Martin was crossing the railway at Bowes Station, after alighting from a train, when he was knocked down by a light engine and killed. He succeeded to the business of the late Mr. Procter, chemist and druggist, of The Horsemarket, Barnard Castle, to whom he was apprenticed. He had served on the old Local Board and the Urban Council and on the Teesside Board of Guardians, and was a county magistrate, a trustee of the Bowes Museum, the Mechanics' Institute, and Hilton's Charity. In politics he was a prominent Liberal.

PADLEY.—At Townsville, North Queensland, on June 17, Mr. William Padley, chemist and druggist, aged sixty-two. Mr. Padley was born in Australia, but came to England as a lad, and was apprenticed to the late Francis Earle, chemist and druggist, at Hull. He studied at the South London School of Pharmacy, and qualified in 1879, afterwards commencing business on his own account at Derringham Street, Hull; but in 1887 he returned to Australia. He was well known in Victoria, New South Wales, and Queensland.

SAUNDBY.—At 68 Hagley Road, Edgbaston, on August 28, Professor Robert Saundby, M.D., F.R.C.P., LL.D., aged sixty-nine. Dr. Saundby, who was so well known in the Midlands, received his medical education at Edinburgh, and went to Birmingham in 1876 as pathologist to the General Hospital, afterwards being physician for twenty-seven years. He was a great authority on diabetic foods and other invalid preparations, and many remember with gratitude the post-graduate lectures which he instituted at the Medical Institute. His publications include "Diseases of the Digestive System" and "Medical Ethics." He was President of the British Medical Association, 1911-1912. One of his three sons, an officer in the Royal Flying Corps, was killed on service last year. The funeral took place on August 30, the first part of the service being conducted in the Cathedral Church. Among those present were Sir Thomas Barclay and Mr. F. H. Alcock, Ph.C.

SHAPCOTT.—Recently, Mr. W. H. Pyne Shapcott, chemist and druggist, for many years in business at Combe Martin (Devon).

WILSON.—At Birmingham on August 29, Mr. John Wilson, aged seventy. Mr. Wilson was employed in the office of Thomas Tomlinson & Son, chemists' valuers, New Cannon Street, where he was found in a faint over the gas stove. He died in the infirmary the same evening. Although he recovered consciousness, he gave no account of how the affair occurred. A verdict of "Accidental death" was returned at the inquest.

Died on Service.

CROWTHER.—Private Russell E. Crowther, West Yorks Regiment, who enlisted while an apprentice with Mr. F. Mallinson, chemist and druggist, Heckmondwike, and was reported as missing on April 25, was killed in action on that date.

GUTHRIE.—Second-Lieutenant Hugh S. Guthrie, Black Watch, wounded and taken prisoner in March, has died in a German reserve hospital. He was twenty-five years of age, and was a chemist before he joined the Army.

HICKS.—Lieutenant Frank Alan Hicks, M.C., Royal Fusiliers, eldest son of Mr. Alan Hicks (director of The British Drug Houses, Ltd.), was killed in action on August 21, aged twenty-one.

MABEN.—Lieutenant James A. Maben, second son of Mr. T. Maben, Ph.C., Herne Hill, London, was killed in action in France on August 24. Lieutenant Maben joined the London Scottish as a private in April 1917. Later he received a commission, and was gazetted to the Dorsets on March 26 last. He was a native of Hawick, was married, but had no family, and in civil life was a member of the staff of the Nestlé and Anglo-Swiss Condensed Milk Co. His elder brother was killed on August 22, 1917. The two brothers enlisted on the same day, and both had only been one day in the firing-line when they were killed.

MCJANNET.—At No. 3 Southern General Hospital, Oxford, on August 24, of wounds received in action on August 5, Second-Lieutenant Walter Guy McJannet, Bedfordshire Regiment, sixth son of Mr. James McJannet, Ph.C., East London, South Africa, aged nineteen. He was educated at Bedford School, whence he entered the Royal Military College in January 1917. He received his commission in December 1917, and proceeded to the Front on April 24. He was in the first fifteen and second eight at Bedford School, and also rowed for Sandhurst against Beaumont College. His brother Arthur was killed in an air fight at the Front in October 1917.

Wills.

MR. WILLIAM IZON, chemist and druggist, 86 High Street, Aston, who died on June 11, left estate valued at 2,956*l.* 14*s.* gross, with net personalty 1,441*l.* 7*s.* 1*d.*

MR. WILLIAM FROST, chemist and druggist, Caversham, St. Matthew's Road, Worthing, who died on July 3, left estate of the gross value of 5,420*l.* 15*s.* 7*d.*, with net personalty 742*l.* 12*s.* 7*d.*

MR. EDWARD GLOVER, Fenny Bank, Denton's Green Lane, St. Helens, who died May 4, left estate of the gross value of 10,266*l.* 19*s.* 5*d.*, with net personalty 10,171*l.* 9*s.* 3*d.* Probate of his will has been granted to his brother, Mr. John Glover, Whalebone Inn, Netherton, near Frodsham. A bequest of 300*l.* is made to the Vicar and Churchwardens of St. Mary's Church, St. Helens, for the organ and choir, and the residue of his estate is divided between his sister and his nephews and nieces.

The Sweetest Plant Known.

UNDER the above attractive heading the "Agricultural News" of Barbados draws attention to the possibilities of a species of *Stevia* being cultivated in the West Indies for its sweetening properties. The plant, which belongs to the natural order *Compositae*, and is closely related to the genus *Eupatorium*, grows in the higher lands in the neighbourhood of San Pedro, Paraguay, and, though comparatively rare, might be easily propagated either by suckers, by cuttings, or by division; the last means, it is said, is the most easy. A chemical investigation in 1913 resulted in the isolation of two different sweet substances from the leaves—eupatorin or estevin and rebaudin—names derived from the generic and specific names of the plant (*Eupatorium Rebaudianum*). The sweet substance, which is stated to be 180 times as sweet as sugar, is not fermentable. The importance of the product of this plant, therefore, is chiefly as a substitute in diabetes for saccharin, over which it presents the advantage that it can be used in its natural state by crushing the leaves to powder, and it is much cheaper than saccharin. It is stated that small samples remitted to Europe and North America have resulted in applications for large quantities. One drawback in its cultivation seems to be the failure to produce many fertile seeds, but its multiplication by cuttings, suckers, and division of the root, chiefly the last, is comparatively easy. If cuttings or seeds could be obtained it might be interesting, and perhaps profitable, to make a trial of growing the plant in the West Indies.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," August 21, 1918.)

- "KI-RO-SAN"; for hair tonics, etc. (48). By J. H. Robson, 28 Chapel Road, Worthing. 382,962.
Conventional label device for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, W. 1. 383,833. (Associated.)
"DENBELYS," "TEINDELAIT," and "TEINDELYS"; for all goods (48). By Société Anonyme des Parfums d'Arly, 107 Boulevard de la Mission Marchand, Courbevoix, France. 383,840/844/845. (Associated.)
"REGATA" and "JACK & GILL"; for perfumery, etc. (48). By J. Margerison & Co., Leighton Street, Preston. 383,900; 384,037.
"LEEMA"; for toilet articles (48). By J. Dundee, 95 University Road, Belfast. 383,973.
"LU-LU"; for all goods (48). By A. Carreras, 207 King Street, Hammersmith. 384,163. (Associated.)
"STUNLAW"; for toilet preparations (48). By E. Marshall, The Hawthorns, Hawthorn Road, Wallington, Surrey. 384,178.
"LODEIA"; for perfumery, etc. (48). By Selfridge & Co., Ltd., 400 Oxford Street, W. 1. 384,243.
"CRINOFRICTO"; for a face-stone (50). By W. King, "Wey-leigh," Poplars Road, Shalford, Surrey. 382,941.
"CULMAK"; for shaving brushes (50). By T. W. Culmer & Sons, 48 Durham Road, Holloway, N. 7. 383,732.

(From "The Trade-marks Journal," August 28, 1918.)

- "GALVAPRIME"; for all goods (1). By J. Freeman, Sons & Co., Ltd., Garratt Lane, Wandsworth, S.W. 18. 383,979.
"FEROXAL"; for all goods (1). By The Rozolene Co., 49 Deansgate, Manchester. 384,314.
"CRUSADER"; for an insecticide (2). By Lawson & Co. (Bristol), Ltd., Straight Street, St. Philip's, Bristol. 384,065.
"SOLVIT"; for potato spray (2). By E. A. White, Ltd., Beltring, Paddock Wood, Kent. 384,143.
"STANOLIND"; for medicinal chemicals (3). By Anglo-American Oil Co., Ltd., 36 Queen Anne's Gate, Westminster, S.W. 1. 384,002.
"LACTOPHYTIN BRAND PHOSPHORUS PREPARATION" and "NEOPHYTIN BRAND PHOSPHORUS PREPARATION"; for all goods (3). By Society of Chemical Industry in Basle, 141 Klybeckstrasse, Basle. 384,256/7. (Associated.)
"STILT" with picture of boy on stilts; "SCUTTLE" under picture of coal scuttle for goods (47) and for perfumery, etc. (48). By Tyson & Co., Ltd., 6 Blackstock Street, Liverpool. 383,547/543/544/545. (Associated.)
"JOLLY MILLER"; for goods (47). "GOODWIN'S POPULAR TOILET SOAP" and picture of children at play ("Popular" disclaimed); "GYM TOILET SOAP" with picture of gymnasium; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 384,315; 384,203/204. (Associated.)
"A LA BERGERE" with picture of shepherdess, etc.; for perfumery, etc. (48). By National Chemical Works, Ltd., 2 Stanley Road, Acton, W. 3. 380,338.
"ZENOBIA FAIRY PERFUMES (CONDENSED)"; for perfumes (48). By Zenobia, Ltd., Woodgate, Loughborough, Leicestershire. 383,265. (Associated.)
"HAYSEL"; for toilet soaps and face-powders (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 383,295. (Associated.)
"LUSTY'S TURTLE OIL SOAP" and signature on oval label; for turtle oil soap (48). "LUSTY'S TURTLE OIL SHAVING STICKS" and signature; for turtle oil shaving sticks (48). "LUSTY'S TURTLE POMADE" with signature, etc.; for turtle oil pomade (48). By J. Lusty, 6-12 Parnham Street, Limehouse, E. 14. 384/221/222/320. (Associated.)
Device including three-faced head; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, E. 8. 384,265. (Associated.)

(From "The Trade-marks Journal," September 4, 1918.)

- "NEON BRAND FINEST LIGHT TIN OXIDE" on picture of sun; for tin oxide (1). By H. Wiggins & Co., Ltd., 55 George Street, Parade, Birmingham. 383,227.
"PYROGALLIC ACID CRYSTALS, ENGLISH MANUFACTURE" on circular device including rose; for pyrogallic acid (1). By J. L. Rose, The Old Gasworks, Abbey Road, Barking, E. 383,955.
"FEDEROL"; for chemicals (1). By The National Federation of Associated Paint, Colour, and Varnish Manufacturers of the United Kingdom, Exchange Buildings, Bowalley Lane, Hull. 384,164. (Associated.)
"ESTOL"; for all goods (1 and 2). By Wood & Co., 34 Oxford Street, W. 1. 384,290/1. (Associated.)
"ANTIHIDROPLOS"; for chemicals (1). By W. Revello, 28 George Street, Butte Docks, Cardiff. 384,493.
"FLAT-IRON" over picture of same; for chemicals (2), medicated soap (3), goods (4), food substances (42), goods (47), perfumery, etc. (48), and polishes, etc. (50). By Tyson & Co., Ltd., 6 Blackstock Street, Liverpool. 382,833/1/2/3/4/5/6. (Associated.)
"ABUNDA"; for fertilisers (2). By Stonehouse Works Co., Spon Lane Mills, Houghton Street, West Bromwich. 384,501.
"SYNTEX" over device of seal (seal disclaimed); for all goods (3). By De Trey Brothers, 19 Nurembergstrasse 19, Zurich. 383,128. (Associated.)
"SOLVACIDE BRAND REMEDY FOR RHEUMATISM"; for a rheumatism medicine (3). By Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, E.C. 4. 383,749.

Trade Notes.

PEPTOCINA is a digestive aid which is made by Davies, Sons & Co. (Derby), Ltd., manufacturing chemists, Bridge Street, Derby. Special trade terms are given in this issue.

DENTAL SPECIALITIES.—The Western Dental Manufacturing Co. (1914), Ltd., 74 Wigmore Street, London, W. 1, give in their advertisement the trade terms of their specialities, Sotol, Kleazit, and Hydro-Suctine.

PHOTO. CHEMICALS LIST.—B. W. Hair & Son, manufacturing chemists, 104 High Holborn, London, W.C. 1, send us a copy of their August wholesale prices current of photographic chemicals, for which they are well placed. The firm will post a copy to any of our subscribers who write for it.

AYRTON'S TEA TABLETS.—The revised P.A.T.A. prices of these tablets (Ayrton, Saunders & Co., Ltd., Liverpool) are: Retail, 10½d. per tin; wholesale, 8s. 3d. per doz. Each tin contains fifty tea tablets. There is a run on these at present, as holiday-makers take these with them to the seaside in view of tea shortage at some of the resorts.

TWO NEW SOAPS.—The Ni-Verre Chemical Co., 5-7 Ormeau Avenue, Belfast, send us samples of the two new soaps they are advertising in this issue. These are Virx anti-septic skin-soap, retailing at 9½d. per tablet, and "N-V." rapid-shaving sticks (6d.). Those who deal in the Ni-Verre preparations will find the new lines saleable additions to the series. A special offer is made in the company's advertisement.

"ORDERIT" FORMS.—Dudley & Co., 451 Holloway Road, London, N. 7, send us a specimen of their "Orderit" forms, which, employed for ordering goods, only require the use of a halfpenny stamp. No envelope is needed when the "Orderit" form is used. There should be a good demand for the form, as much postage is at present being wasted. Messrs. Dudley will send a sample of the form to any of our readers.

CHALLAND NON-ALCOHOLIC WINE.—Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C. 4, have been appointed agents for the Challand non-alcoholic wine. Apart from the absence of alcohol, it is claimed that the beverage is an improvement on ordinary wine, because the method of manufacture conserves the active vitamins of the fruit from which it is made. Challand retails at 5s. 6d. and 3s. per bottle, the trade terms being 52s. 9d. and 28s. 9d. per doz.

Business Changes.

MR. ISAAC ALEXANDER, chemist and druggist, has acquired the business of the late Mr. Quarumby, 4 Baker Street, Oldham.

MR. JOHN WOOD, Ph.C., 35 High Street, Aylesbury, has closed his pharmacy, which he has conducted for thirty-two years, in order to devote his entire attention to the optical branch.

COWAN BROS., LTD., Stratford, London, E., and London House, Crutched Friars, E.C. 3, have purchased the business of Widenmann, Broicher & Co., Ltd., from the Controller, with the approval of the Board of Trade.

Information Department.

INFORMATION WANTED.

165/67. "Dallo" oil	167/46. Richards' hair-dye
166/7. "Roo" cleansing-powder	167/8. Clarke's "Trident" brand of absorbent cotton-wool
167/43. "Gersarette" (disinfectant)	168/35. "Petra" brand foods
167/44. Dennison paper bandage	168/37. Dr. Scott's pectoral pills

INFORMATION SUPPLIED.

"Angus" worm balls for dogs, 158/62	Himrod's asthma cure, 160/47
"Antipon," 160/5	"Hygeia" feeding bottle, 162/22
Carnrick's liquid peptonoids, agents, 161/28	Lusty's turtle soup, 161/34
Chemists' overalls, 162/25 and 170/14	Matthew's fullers' earth, 160/503
Christy's safety razors, 161/24	Mennen's violet powder, agents, 160/47
"Creoline" (Pearson), 159/46	Murray's gout specific, 160/47
"Ectodyne," 162/28	"diol," 160/500
"Everclean" body belt, 161/33	Raspail's pills, 160/502
"Exol," 158/61	"Revivules," 159/62
Geraudet's pastilles, 160/501	Seeger's hair dye, 160/504
Harrison's rat poison, 157/44	Taylor's perfumery sachets, 160/505
Honoré Payan's perfumery, 162/29	Tincture presses, 162/12
	"Zenobia" perfumes, 160/506

Observations and Reflections.

By Xrayer II.

Your Article on Pharmacy in Parliament

is disquieting in several respects. The silence of the Council with regard to the subject is itself symptomatic. Personally I doubt whether an election will occur this year, but it cannot be very far off, and if we are going in for direct representation it is high time to bestir ourselves. Has the question fallen into silence since Mr. Woolcock's withdrawal? Was it kept alive on his account merely? And if it is still in debate in official circles why are we not kept informed? Then there is the question of the fund. It is not, you say, held to be a part of the Society's income, but the Society holds it. As what? Are they who contributed to it not to know what is being done with it, or whether anything is being done? We did not contribute it as a secret service fund, but (speaking broadly) to promote the return to Parliament of a particular man: if he has withdrawn, common honesty demands that another selection, or other selections, approved by subscribers, should be made. "Secret service fund" indeed! We are not a political party, and we have no use of such a fund for party purposes. One of the first demands of our "reformers"—indeed the very first—should be, "No more secrecy in any department of pharmaceutical government."

The Women's Strike

in support of the principle of equal pay for equal work suggests the question how far this obtains in the drug-trade, and the further question of the effect there of its admission or non-admission. There is, of course, another question too: Is equal work between men and women practicable in pharmacy? But this I must leave for the present. A glance at your advertisements of situations open or desired throws no light on the other two. Out of about a hundred advertisements of situations open in a recent issue of the Coloured Supplement only three or four mention the amount of salary offered; and among the much smaller number of applications for a situation only three—two from men who ask respectively 5*l.* and 5*l.* 10*s.* per week, and one from a lady who offers her services *as dispenser to a doctor* for 2*l.* 2*s.* per week. I have never been able to understand this shyness with respect to the amount of salary, either in employers or assistants, except as it illustrates the individualism of interest and outlook that is so characteristic of our craft. Our trade motto might well be "Every man for himself," and with all our talk of federation, organisation, and what not, we appear in this respect at least to be as close and selfish as ever. There ought to be some accepted proximate standard of value for assistants of every class, below which it would be infamous for either employer or employed to drop. If we had an Assistants' examination (as we ought to have) this could be more easily arranged. What is the general opinion with regard to women in relation to this idea? I fancy the prosperity of pharmacy as a calling will depend a good deal upon the answer given to this question when normal conditions return.

Economical Reconstruction

after the war is too large a subject to be handled here, and its consideration might lead me into the field of politics, which is not my province. It is, however, a subject we ought all to reflect upon for our own guidance when the time comes, and it is well to seek guidance where it is most surely to be found—that is to say, in the records of former times. It is true that the problems with which we shall be confronted when the war is over are of an unprecedented complexity and immensity; never have similar difficulties on so large a scale had to be dealt with by any people. The nearest analogy in modern times is the state of things at the conclusion of the Napoleonic wars, when the country was brought almost to the verge of economic ruin and social disintegration—nearer to both, indeed, than we are likely to be when the present war is over, though the task of reconstruction was less stupendous then than now. The National Debt, though the largest ever up till then incurred by any

nation, was a fleabite in comparison with ours; the dislocation of trade and industry, serious as it was, bore no comparison with that of the present time; and the number of men to be reinstated in industry was barely half a million. The antecedent conditions, too, were very different from what they are now, and affected the problem very greatly. Still, we may draw a lesson from those times, and it is this—that it is not in the increasing of artificial restraints on trade or on individual freedom, but in their relaxation, that the secret of reconstruction lies. Anybody who will read the chapter in the Cambridge Modern History (vol. x., ch. 18) dealing with this subject must, I think, be convinced of this.

I Notice that Wool-fat

occurs in the Adeps Factitius of the Pharmaceutical Codex Addendum. This is very unsatisfactory while the appearance of wool-fat varies as at present it does. I have quite recently had samples from different reputable houses which without examination would not pass for the same thing, some being quite brown, others, nearly colourless. They vary in smell too. Blink the fact as we may, it remains true that as regards this article, the quality of some makers' products, at any rate, is much behind that of the enemy lanolin. Why is it? And why are not the Codex editors aware of the varying character of this article, or do they think it of no consequence?

The Baku Oil Springs

are being threatened with destruction, but it can hardly be supposed that so mad a threat will be carried out. These springs are said to have been known for more than 2,500 years, and in ancient times they caused Baku to be regarded by the Persian Fire-worshippers as a holy city, to which pilgrimages were made. Baku was an important place when our English trading adventurers, travelling by way of the North Sea and through Russia, discovered the Caspian in Tudor times, and its "black oil" is mentioned in their reports as one of the commodities of the country; but Anthony Jenkinson does not seem to have mentioned the town, or his successor Burrough to have said anything about the springs. The most interesting account of these is given by Sir Thomas Herbert in 1626, or thereabouts. Near "Bachu (he says) is a Spring of that rare kind of Oyl or clammy substance, called Neft or Nephthi, which will take fire from the Sun-beam, or other heat. If it be not the same mentioned in 2 Maccab. i. 36, 'tis much like it." In the remarkable account in the passage in Maccabees referred to, describing the cleansing by fire of the Temple, the "thick water" that was used is called in our R.V., Nephthar, and Nephthai, or, in English, "Cleansing."

Herb-Robert

(on which you had a note the other week) was not only famous as a vulnerary, but was used also for all sorts of swellings and local inflammations, among which erysipelas may be classed. It entered into the composition of "save," the wound-drink referred to several times by Chaucer, and into the similar Antioch drink, if, indeed, this was not the same thing as "save." Bate's *Cerevisia Scrophularia* also contained it, and Lemery says it is detergent, astringent, vulnerary, and dissolves coagulated blood, for which purpose it may be both applied in a cataplasm or taken in a drink. The origin of the name appears to be about as obscure as that of any plant known to us. Friend gives half-a-dozen explanations or more, and decides that it is derived from Robin Hood, which is, I should say, most unlikely. The German *Ruprechts-kraut* has been referred both to St. Robert, whose festival falls on April 29, which is the date given for its blossoming, and to *Ruprechts-plage* the disease of Duke Robert. It has also been referred to the German Robin Goodfellow, *Knecht Ruprecht*. It is, however, more prosaically suggested by some old writers that *Robert* here signifies only the colour of the flower: *Roberta, a rubro colore*. There are other explanations even less plausible.

"MICROBES" and "nut rake" are the latest attempts (in the Whitehaven district) at nigroids and areca-nut respectively.

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Index Folio 710

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Editorial Articles.

Pharmaceutical Research.

ONE of the most important of the problems with which we have to deal is, perhaps, the supply of fine chemicals and other pharmaceutical products independently of Germany. At all events it is one of the most urgent. Upon this more than upon any other single point hangs the future of British pharmacy. Events have clearly shown that we must prepare to supply our own wants and the wants of our Dependencies in this respect, or be for ever content with the inferior position of mere buyers and sellers of other people's products in abject dependence on their good will. The position in this case would be particularly degrading, as we should be forced to depend upon a nation which for very good reasons is despised by four-fifths of the world. Now, the maintenance of the supply of fine chemicals such as are employed in medicine depends upon original research. It is not enough simply to adopt and apply other people's discoveries; we must ourselves be pioneers of science if we would be successful in the application of

science. What have we as pharmacists done in the past in the field of original research? Something, no doubt, but not enough to prevent our being at the outbreak of war almost entirely dependent on Germany for countless drugs and pharmaceutical preparations without which our business cannot be carried on, much less our position in the world be advanced. Under the pressure of war conditions we have made strenuous efforts to remedy this state of things, but every pharmacist knows how little we have been able to do in comparison with what needs to be done. Such sporadic efforts as individual firms are able to make can hardly avail even to supply permanently our actual wants. We do not wish to be misunderstood on this point, as we know that excellent work is being done in the laboratories of chemical-manufacturers and wholesale druggists. There must, however, be co-operation in research, and some central and directing school of research organised and equipped on such a scale as to command universal respect. The research laboratory should be able not only to undertake work but to supply men trained for such work wherever they are required. The opportunity for immensely increasing our usefulness, and thus our hold upon the public, is thrust upon us. The Government is prepared to facilitate co-operation among business houses, and its scheme of Research Associations, as set forth in the Reports of the Committee of the Privy Council for Scientific and Industrial Research (the third annual Report has been published this week), offers at least a beginning that promises well. But the Government has also indicated its willingness to help in another direction—in the financing, that is, of research in pure science by Universities and Technical Colleges. The extent to which this has actually been done or which is contemplated as possible is not clearly indicated in the Reports, but it occurs to us as a feasible proposition that our Pharmaceutical Society, though it does not come exactly under either of the two heads just mentioned, is a very suitable body, perhaps the most suitable body, for work of this kind in its own peculiar field (which is not the least important of those demanding exploration), and has as strong a claim as any other body to such aid as Government can give. It has had since 1888 a research laboratory of its own (all honour to it for that), which would no doubt need to be very greatly enlarged and extended if it set itself seriously to fill the place of centre and head of British pharmaceutical research in general. We have no inside knowledge of the working of this laboratory, and the reports of its doings that we have seen hardly afford a basis of judgment as to its competence, as at present carried on, for such a development as we are contemplating; but it would seem to be at least the nucleus of such a school as is required. It could not, of course, compete with such bodies as the great Universities, nor is it desirable that it should, but it is certain that specialisation is as necessary in research as in industry, and there can hardly be any body that is *prima facie* more fitted for specialisation in pharmaceutical research. It would have no commercial "axe to grind"; it would be in close touch with the trade, both wholesale and retail; and there would be none of that aloofness on either side which is said to have prevented in the past the effective application of science to industry. It would, or should, moreover, be able to rely on the support of all who belong to the Society or have an interest in it. This, of course, is the main point: are pharmacists as a body sufficiently interested, or might a sufficient body of interest be created in the Society, to supply the stimulus necessary to the carrying-on of a school of research on the scale required to give it any sound claim to Government recognition and help? That there are men among us able to undertake the work we may assume; that the Society if it had a sufficient backing would undertake the responsibility of such a new departure as would be involved we may hope; but it would be unreasonable to expect anything to be attempted on such a scale unless we are prepared to make sacrifices. The Major examination supplies many students well equipped

for research-work, and the diversion of the scholarships intended for post-graduates forms an excellent basis for any National Pharmaceutical Research Laboratory. The physiological testing of digitalis, squill, strophanthus, and ergot could be undertaken so that retail chemists and many wholesale druggists need not depend upon outside bodies for tests in the physiological regions of science. It will naturally be asked what prospect there is (if any) of such Government support as we have spoken of, in case we do respond to the occasion's call. For answer we must refer to the three Reports of the Committee of the Privy Council for Scientific and Industrial Research (Cd. 8336, 8718, and 9144), which are obtainable at 4d. each from the Stationery Office. A fund of a million pounds has been placed at the disposal of the Government for research. Definite research bodies are required to be formed on lines laid down in the second and third Reports, where also the conditions as to the payment of the grant are clearly stated. Whatever the prospect of State aid may be, an immediate effort ought to be made to meet the requirements of the time in some such way as we have indicated. Such an effort would react on the whole body of pharmacists, and would demonstrate our claim to be the true depositories of pharmaceutical knowledge and skill in this country. It would stimulate us to greater efficiency in every branch of our calling, and hold out a prospect of unlimited advancement to the individual pharmacist and to pharmacy itself. And, needless to say, this prospect would be immensely enhanced if ultimately our claim to State aid were established. We suggest that the Council of the Pharmaceutical Society should appoint a Committee to look into this matter. Prompt action is desirable, because the formulation of the scheme takes some time and the work should be commenced so soon as chemists are available.

New Chemistry Books.

It is a good index of the vitality of chemistry in this country that, notwithstanding the high price of paper and the increasing cost of printing, many new works on pure and applied chemistry are being published. From a study of some half-dozen of those received within the last few weeks it is obvious that the quality of the output is maintained even in war-time. Among these works is a translation, in two volumes, by Mr. T. H. Pope, of Villavecchia's "Treatise on Applied Analytical Chemistry" (J. & A. Churchill, 21s. and 25s.). Professor Villavecchia is Director of the Chemical Laboratories of the Italian Customs, and his work deals with the methods and standards for the chemical analysis of the principal industrial and food products. The first volume deals with the following subjects: Waters; chemical products (tests for acetone, acids, salts, and the like); fertilisers (20 pages); cement materials; metals and alloys (130 pages); fuels; coal-tar and its products (20 pages); mineral oils and their derivatives; fatty substances; industrial products from the treatment of fatty matters (soap, candles, Turkey-red oil, etc.). The second volume covers even a wider field, and embraces such subjects as meat preparations, milk products, cereals, sugars, alcoholic beverages, essential oils, varnishes, rubber, tanning products, and colouring matters. The chapter on essential oils gives special prominence to the Italian products—orange, bergamot, and lemon oils. The special feature of the work is the concise manner in which the tests are marshalled, and an analytical chemist will find sufficient detail for practical purposes. A useful book to organic chemists is Dr. J. C. Cain's "Manufacture of Intermediate Products for Dyes" (Macmillan & Co., 10s.), which is a concise account of the literature dealing with the manufacture of intermediate products for dyes. When it is considered that in no single library in this country can the whole of the literature on the subject be consulted, it will be seen what a service Dr. Cain has rendered to chemists engaged in manufacturing organic chemicals such as dyes. The plan is to deal with the intermediate products in groups of the benzene, naphthalene, and other series, and to review the information obtainable from technical journals and patent

specifications. There are illustrations where necessary and copious references to the original monographs, so that the fuller account can be consulted if required. In the introduction, Dr. Cain advocates as an adjunct to chemical factories an experimental laboratory fitted with a small-scale plant so that processes can be tried on a relative scale before being committed to the factory. Dr. Samuel Rideal is editing a series of about eighteen volumes on the chemical industries, of which the first, "The Alkali Industry," by Dr. J. R. Partington (Baillière, Tindall & Cox, 7s. 6d.), has appeared. The monumental works of Lunge on the alkali industry are well known, but for students the study of Lunge involves much concentration on many processes of historical interest only. The book which Dr. Partington has written is especially useful for students, and forms a useful introduction to the larger treatises. The eleven sections into which the book is divided deal with the salt industry; sulphuric acid; natural soda and the Leblanc process; the ammonia-soda process; electrolytic processes; chlorine and derived products; nitric acid; ammonia and ammonium salts; the oxidation of ammonia; utilisation and economy of sulphuric acid; potassium salts, iodine, magnesium. We receive many inquiries for books from pharmaceutical students who desire to acquire a knowledge of processes used in the manufacture of heavy chemicals, and can now refer them to this very satisfactory work—the processes are well summarised and the most recent practice is embodied in the descriptions. Charles Griffin & Co., Ltd., continue the publication of the volumes of the "Text-book of Inorganic Chemistry," which is edited by Dr. J. Newton Friend. Volume V. (15s.), dealing with carbon and its allies, is by Dr. R. M. Caven, of the University College, Nottingham. The subject is rather wider than would at first sight appear, as the allies of carbon in the periodic table include silicon, titanium, zirconium, thorium, germanium, tin, and lead. The volumes, it will be remembered, are arranged to cover the different groups of the periodic table, so that including that for group "O" there will be nine volumes in the series. The whole when completed will form a capital reference library on inorganic chemistry if the model of the volumes that have already appeared is followed. The last of the half-dozen books which we set out to describe is by Dr. Gilbert T. Morgan—"Organic Compounds of Arsenic and Antimony" (Longmans, Green & Co., 16s.). As the book deals with the newer organic arsenic and antimony compounds employed in medicine it is of particular interest to pharmacists. Here, for instance, will be found in orderly sequence particulars of the manufacture of the intermediate and finished products which are known as atoxyl, salvarsan, neosalvarsan, galyol, ludyol, huargol, etc. At the International Congress of Applied Chemistry, 1909, Dr. W. H. Martindale presented a capital survey of the organic arsenic compounds which were of present interest. Dr. Morgan has proceeded on similar lines, but gives fuller information of the manufacturing processes of the various products, including those that have been introduced since. The author is well qualified to write on the subject, as he has been engaged for some years in organic research work dealing with these particular matters. He has communicated to the Chemical Society many papers dealing with his researches within the last few years.

Oil-seeds and Oils.

In view of the suppression of all statistical returns from official sources in regard to imports of oil seeds and oil products into the United Kingdom, the position has become extremely obscure, and it is thus almost impossible to arrive at any conclusion as to how matters now stand, although there is not much doubt that the indications of improvement in the accession of raw materials from abroad in recent months have resulted in some amelioration in the general conditions of the seed-crushing industry. With practically everything under official control, there is obviously a lack of commercial interest. Individual private trading has to all intents and purposes been killed, while the whole of the business transacted is inevitably passing through Governmental

Departments at the expense of the merchant trade. It is, however, no use lamenting over the drastic procedure adopted by the authorities for national safety. The great bulk of the available resources, of course, being needed for essential or war use, a close system of rationing was gradually enforced not long ago, and this will probably have to be rigidly adhered to for an indefinite period, or until preparations can be made for some restoration of public business anticipatory of post-war developments. In regard to the regulation of prices under control, there has been but little change so far from the rates that were current about a year ago in regard to vegetable oils, except for the drastic lift of official prices made early in the year in linseed oil and the raw material. Linseed oil remains pegged at 75% per ton, while the rates a year ago ranged from 58% to 63% net per ton, according to description. The urgency of the revision made in this product was chiefly incidental to the large war needs. Owing to the prevailing shortage and the increased demand, the authorities have been very anxious to increase the supply of vegetable oils generally, while a similar policy has been pursued across the Atlantic, where many of the cotton-mills have been crushing ground-nuts, soya beans, and copra to a greater extent than before. The production of ground-nuts in America within the last two years has been rapidly increased, and this year's yield may possibly be double that of last year, which amounted to as much as 51,000,000 bushels. The soya-bean industry has likewise undergone a big expansion. Shipping embargoes last year hindered imports of copra, but this was made up by the considerable quantities of oil extracted from copra in the previous year, while large quantities are still reaching the Pacific Coast and are being diverted to crushers in the South-West. These oils, apparently, are suitable for the same purpose as cotton-seed oil, and presumably enter more extensively into the manufacture of margarine and other butter-substitutes. Every effort has thus been made to swell the output of vegetable oils by the cottonseed-mills handling other material than cottonseed. A census was recently ordered by the War Industries Board in the U.S.A. of all stocks of linseed oil held by the various manufacturing branches, and of their usual requirements. This action is regarded as the forerunner of the suspension of the embargo on importations of Argentine linseed, or the release of adequate carrying tonnage by the United States Government. Possibly the searching inquiries conducted from Washington may be intended to facilitate future action in the matter of fixing a maximum price for linseed oil. Considerable interest obviously attaches to developments in the American trade, as these have an important bearing on conditions on this side, especially in regard to linseed oil. The American price of this product has steadily risen, and now stands in the neighbourhood of \$2 per gal. American crop news has been brighter, a much better yield being looked for than before, and new seed may possibly soon be on the market. Reports, however, are highly conflicting, and no reliable estimates of yield will be available for another month or so. Considerably larger quantities of River Plate linseed have been shipped so far this season to the United States, but practically nothing was dispatched to the Continent, although better shipments were made to Great Britain in recent months. The lack of tonnage is, however, still a severe hindrance, in view of the greater pressure of shipping for other purposes. Linseed supplies in this country and in America need replenishing badly, but the outlook is quietly mending, while the position on the other side is apt to undergo a rapid improvement before the winter if the crop justifies present hopeful anticipations. The high "record" prices reached in America both for seed and oil, and the tightness of market conditions in the River Plate, were perhaps accelerated by the fact that important quantities of River Plate seed were contracted for on German account prior to the buying of the Allies. The shortage of linseed oil in this country is a serious obstacle to industrial operations in connection with the largest consuming branches, such as linoleum, as well as paint and varnish manufacturers. The need for a drastic Government control naturally became imperative. But for this a much more serious state of affairs

would no doubt have ensued. The situation now, however, seems fairly well in hand, and the hope is held out that before very long the authorities will be better able to deal with the extraordinary urgency of demand, especially in regard to the question of edible fats. The chief aim of the control enforced was undoubtedly to afford relief as far as possible in this direction, at the expense of industrial use, and the strict policy adopted applies to all descriptions of seed and nut oils, of which very considerable quantities have had to be diverted for supplementing resources for the manufacture of foodstuffs. In the circumstances, it is probable that an indefinite period will elapse ere a resumption of seed-oil supplies for those industrial sections which have more particularly suffered through the war can be sanctioned. Meantime, these industries are doing the best they can in order to preserve their existence. An improvement in the production of oilseed cakes for cattle-feeding purposes in this country can only be gradual, although imports of such material have almost ceased. Under the priority arrangements in force the home supply of oilseed cakes is more particularly allocated to dairy and breeding cattle. An interesting development lately in the direction of strengthening the official control exercised by the authorities in the seed-crushing and oil industry has been the inception, under the auspices of the Food Ministry, of the United Kingdom Oil and Oilseed Brokers' Association, Ltd., with a capital of 150,000/. This concern is intended for the regulation and administration of the whole of the operations of the various departments connected with the seed-crushing industry, subject to the control of the Food Ministry. This will tend to centralise operations, facilitate the distribution of supplies and the regulation of prices. The activities of the Association, however, which is purely destined to protect vital national interests so long as desirable under present difficult conditions, will not be extended unduly. Its duration, in fact, is not expected to exceed by one year the suspension of the control now exercised by the Food Ministry. The trade interests in the various manufacturing districts of the country are said to be fully represented on the Managing Committee. Rather conflicting opinions have been occasionally expressed in the trade as to how far the current official prices of seeds and oils and kindred products are justified by the present complicated conditions; but in the absence of import figures, to which trade interests connected with Government control alone have access, this is a matter of conjecture. The authorities are without doubt doing the best they can to grapple with a complex situation, with the assistance of leading trade experts, and individual grievances in one direction or another.

Trade-names for Synthetic Drugs.

Owing doubtless to the difference in the law in the United States the Government there appear to have decided that names other than those originally applied to synthetic drugs are to be employed in future. Under the authority of the United States Trading with the Enemy Act the Federal Trade Commission has provided for the manufacture in America of those synthetic drugs which were before the war imported from Germany. The Commission stipulates, however, that new names must be used for the products. These are:

Arsphenamine for salvarsan, diarsenol, and arsenobenzol, etc.

Neoarsphenamine for neosalvarsan, neodarsenol, and novarsenobenzol, etc.

Barbital for veronal.

Barbital-sodium for medinal and veronal-sodium.

Procaine for novocaine.

Procaine nitrate for novocaine nitrate.

Phenylcinchoninic acid for atophan.

Physicians and pharmacists in America are being urged to employ these so that the names become well established before the time comes for the re-admission of German products. All the patents for the above drugs are in force in the United States, and licences are granted to American houses for the life of the patents.

Flat-rate Insurance Dispensing.

It is not at all unlikely that among the suggestions for payment of Insurance dispensing will be one for a flat-rate. We note that "The Script" refers to this and adds that if the flat-rate is suggested next year "it will not do to spurn the idea with contempt since a flat-rate properly arranged may be fairer to chemists than the present system and better in every way." The idea seems to be to apply the flat-rate to ordinary medicines—those included in the Drug Tariff—leaving the small percentage (serums, special galenicals, etc.) to be separately priced. This would certainly save the enormous amount of time, trouble, and expense involved in the present pricing and checking systems, and we believe the necessary statistics are now available upon which the payment could be based.

Why Not Chemists?

WE were much interested in a paragraph which appeared in the "Daily News" which stated that at Smethwick Tribunal a letter was read from the Commissioner of Trade Exemptions announcing that it was proposed to include the brewing and malting industries in the new list of certified occupations. It was further intimated that men of the new military age should not be called up even for medical examination if they were engaged in such occupation before August 15. The supply of medicines is in our opinion at least as important to the country as the provision of popular beverages, and we hope that Bloomsbury is not resting content on the arrangement which was arrived at in June with the Ministry of National Service. Experience has shown that the agreement did not mean what it appeared to do, and efforts should be directed to improve the position. Unfortunately resentment has been shown towards those who endeavoured to help to put matters on a better basis, but unless the Central Pharmaceutical Advisory Committee wakes up it will be necessary for some outside body, such as the Progressive Pharmacy Club, to take up the subject with the authorities in the interests of chemists.

National Physical Laboratory Report.

THE Report of the National Physical Laboratory for the year ended March 31, 1918, has recently been issued by the Stationery Office. In the course of its seventy pages it records a constantly increasing volume of work, some of which is of direct interest to chemists. We learn, for instance, that chemical glassware is being tested as regards its resistance to the effects of various reagents, and that the standardisation of glass volumetric apparatus has been taken in hand. Of wider interest is the section of the Report dealing with clinical thermometers. In two years the number tested has risen from 16,137 to 143,694. Of these, the number examined for the trade and for private persons is only 5,140, the balance being made up by the demands of the War Office and the Ministry of Munitions. Till about a year ago, it was customary to take samples for testing; but "it was thought that a better quality of instrument could be obtained for Government use, with greater fairness to the makers, if all the instruments purchased were subjected to test at the Laboratory." This is now the practice, and elsewhere in the Report it is mentioned that the percentage of clinicals rejected has fallen from six to less than 0.5. "It is understood that it will shortly be made compulsory that every clinical thermometer sold shall have passed the Laboratory test," runs another passage. As many as 7,000 clinicals have been tested in one week: to this end three new "baths" have been erected, and it is stated that a detailed description of the equipment and methods of test for all classes of thermometers is being prepared for distribution. The examination of optical glass has involved considerable research, and new methods are being evolved. The death of Mr. Thomas Tyrer receives sympathetic mention among the changes of *personnel*; he represented the Society of Chemical Industry on the General Board, and for some years served on the Executive Committee. The usefulness of the volume is enhanced by a list of communications, lectures, etc., contributed on various occasions during the year by members of the staff.

Association Affairs.

Ireland.—The Ulster Drug Trade Association has issued a new retail-price list of 270 pages of patents, drugs, pills, tablets, capsules, sundries, and B. W. & Co.'s preparations. This list has been supplied to all the members, and price-changes are advised weekly. The Association has also a simplified spirit stock-book, sanctioned by the Board of Excise, which is proving a great convenience in claiming rebates. Mr. J. C. Culbert, Hon. Secretary of the Association, has circularised the trade regarding these lists.

Irish C.A.A.—There was a large attendance of members of the Cork branch of the Irish Chemists' Assistants' Association at a meeting held on August 30. Mr. V. O'Sullivan presided. The business under discussion was the organisation of the whole of Munster. Arrangements were made regarding the new Munster Executive, to which Messrs. Ronaghan and Sullivan were appointed delegates.

Newport (Mon.).—A meeting of the Newport Pharmacists' Association was held on August 27. Mr. Benson Harries (President) in the chair, when the Pharmaceutical Society's organisation report was read and a resolution in favour of territorial representation was carried unanimously, recommending that England and Wales be divided into seven districts each represented by three members elected for three years; and that the administration should be vested in three principal Committees—for education, for trade, and for Insurance matters—one representative from each electoral district to be appointed to each Committee. The Insurance Tariff for 1919 was discussed, and it was resolved to recommend an increase of the establishment-charge to 1*d.*, an addition of 1*d.* to the dispensing-fee for mixtures, lotions, etc., and payment of a trading profit of 25 per cent. in place of the 1.55*d.* fee on appliances. It was decided to support the Proprietary Articles Trade Association by refusing to buy or sell Elliman's goods until a satisfactory agreement is reached.

Warwickshire.—A meeting of the Pharmaceutical Association was held at the Masonic Rooms, Leamington, on August 29, Mr. Hutton presiding. The Local Associations Executive Committee's report for 1918 was read and very favourably received, the work having been, in the opinion of members, satisfactorily carried out and at reasonable cost. The report of the Committee on organisation was approved as far as it went, but it was deemed desirable that a scheme by which Secretaries of large county areas should have some assistance should be included. It was decided to press for a considerable increase in the establishment-charge in Insurance dispensing for 1919, and to send to the Pharmaceutical Committee a resolution to that effect. The Secretary was instructed to see that the full support of the Association was at the disposal of the P.A.T.A. in the Elliman controversy.

West Ham.—At a meeting of the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists at Earham Hall on August 22, Mr. Hugo Wolff gave an address on *Federation of Pharmacy*. Referring to the Whitley Report, he said the time had now come when pharmacy should organise, so that views of the whole trade could be put before the Government. He pointed out that, as the Pharmaceutical Society represented both proprietors and assistants, it could not fulfil the function which the Government demanded from our representative organisation. The suggested new scheme of organisation was described by Mr. Wolff as an attempt to patch up the old scheme, and to perpetuate its weaknesses and defects. He urged that the keynote of federation lay in federating the Pharmaceutical Committees, just as the Insurance Committees had formed a separate Association. The Pharmaceutical Committees should federate in areas, closely following those adopted by the Commissioners when they arrange the pricing areas, and he pointed out that a small levy—less than at present paid by panel chemists—would put the whole scheme on a sound financial basis. It would also provide checking supervisors for each area, who would not only safeguard the interests of pharmacists, but would provide the data for a case for higher remuneration in the future. Mr. Wolff said that non-panel pharmacists could be affiliated to the organisation, and we would thus have a really effective union to deal with all Insurance and trade matters. He also referred to the non-proprietors' organisation, which he said was just the necessary body to deal with employees' welfare, and that employers later on would, in the event of any discussions between employer, employee, and the Government, have no employers' representative to speak for their side, whereas the employees would be so organised that they could send good representation to any meeting arranged by the Government.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Liverpool.—The report of the Pharmaceutical Committee for 1917-18 states that in the year under review there were on the panel 116 chemists, with 161 shops, and 7 contractors for appliances, with 7 shops. The checking of prescriptions by the Central Checking Bureau showed the work of the local Pricing Bureau to be so satisfactory that the original arrangement with the Pharmaceutical Society could be greatly modified, resulting in a net charge for checking of only 46*s.* 8*d.* 4*d.* Payment of chemists' accounts is now regularly made on the 15th of each month. The prescriptions dispensed during the year numbered 617,283, at an aggregate cost of 17,273*s.* 15*s.* 9*d.* and an average cost of 6.71*d.*, as against 652,259 prescriptions in 1916, valued at 18,605*s.* 6*s.* 8*d.* and averaging 6.85*d.* The Committee's complaints of excessive prescribing in 1914 and 1915 are now being investigated by the Panel Committee assisted by one of the medical staff of the Commissioners. In regard to military service the report says that, by agreement with the National Service Representatives, all the exemptions granted to chemists in the area have been continued, with one exception. Several dispensing irregularities, involving the alteration of prescriptions, are mentioned, the report recommending the censure of the offenders.

London.—The annual report of the Pharmaceutical Committee has been issued this week, dealing with the year ending June 1918. The chief events of the year are mentioned. Dealing with the exemption of chemists from military service, the agreement entered into with the National Service Ministry and the Pharmaceutical Central Advisory Committee is referred to, and it is stated that one National Service Representative has been appointed to deal with the whole county of London for the purpose of considering the cases of chemists and dispensers. The accounts show that the Pharmaceutical Committee spent 45*s.* in the purchase of the War Emergency Addendum of the British Pharmaceutical Codex.—An Emergency meeting of the Committee was held on September 2 to consider the question of the terms for the Drug Tariff 1919.

Sheffield.—At a meeting of the Insurance Committee, held on September 4, Mrs. Wilkinson and Messrs. J. Brown and C. H. Blackburn were appointed members of the Pharmaceutical Service Sub-Committee, and Messrs. Senior and Siddall members of the Joint Service Sub-Committee. A special Committee was appointed to deal with the proposed constitution of a Ministry of Public Health. The sum of 1,340*s.* 13*s.* 11*d.* was ordered to be paid from the Drug Fund, which is the largest amount on record.

Southport.—At the monthly meeting of the Insurance Committee on August 27—Mr. F. Battersby (one of the chemists' representatives) attending the Finance Committee's recommendation to pay chemists' accounts for June and July was approved. A vote of condolence with the widow and family of the late Alderman C. E. Austin, J.P., a foundation member of the Committee, who had died since the last monthly meeting, was passed.

Warwickshire.—The Pharmaceutical Committee met on August 29, when the Advisory Committee gave a report of its negotiations with the authorities in connection with the recent general review, and received the thanks of the full Committee for its services. The average value per prescription for 1917 was 7½*d.*, and the total amount paid to chemists 5,126*s.* 17*s.* 10*d.* The reports of the Checking Bureau show that the work of the pricing office is now quite satisfactory.

SCOTLAND.

General Council of Panel Chemists.—A meeting of the General Council of Panel Chemists (Scotland) was held at 36 York Place, Edinburgh, on August 24 to consider, *inter alia*, terms for Insurance dispensing in Scotland in 1919. Mr. Thos. Guthrie, Chairman of the General Council, presided. It was moved by Mr. W. G. McNab (Gorebridge), and seconded by Mr. J. B. McVittae (Glasgow), "That the General Council of Panel Chemists considers that, in order to enable panel chemists to meet the greatly increased costs of living and working expenses, and to enable the pharmacy service to insured persons to be maintained at the full pre-war standard, it will be necessary to provide a bonus addition to the amount of panel chemists' accounts for 1919; that such bonus addition should be provided from public funds, and not from the Drug Fund; and that agreements for 1919 should be entered into on

this basis." Mr. Simpson (Aberdeen) proposed, and Mr. David Gilmour (Dunfermline) seconded, "That the warning given to the Insurance Commissioners in the letter of October 24, 1917, be reaffirmed; that, though still adhering to the just claim for adequate remuneration, yet, in view of the circumstances revealed in a six months' experience of the 1918 Drug Tariff and the honourable understanding to maintain the pharmaceutical service till the end of the war if possible, it be recommended that the pharmaceutical service for 1919 should be on the same basis as in 1918." A long discussion took place on the two motions—the first being supported by, among others, Mr. Forbes (Perth), Mr. Dick (Bellshill), and the Chairman, and the latter by Mr. Drummond (Falkirk), Mr. Bennett (Arbroath), and Mr. Reekie (Hamilton). On a vote being taken, Mr. Simpson's proposition was carried, a motion for the adjournment of the meeting being negatived.

WALES.

Cardiff.—The third annual report on the work of the Pricing Establishment (Wales) has been issued by the Cardiff Insurance Committee. This states that during 1917 the prescriptions dealt with exceeded $1\frac{1}{2}$ million, amounting in value to over 35,000*l.* The Establishment now furnishes reports on prescriptions to a number of Panel Committees. Attention is called to the extra work necessitated by the substitution of War Emergency Formulas for pharmaceutical preparations; and an announcement is made of the intention to submit to the Association of Welsh Insurance Committees, and to each of the constituent Committees, proposals for the issue of a single Formulary for Wales and Monmouthshire. The total cost of the Establishment for 1917 was 1,214*l.* 2*s.* 8*d.*

Canadian Acetone.

DEALING with new industries in Canada, "The Times Trade Supplement" for September states that in the early part of the war the demand for acetone was much greater than the supply, and the British War Office authorities requested the Shawinigan Water and Power Co. to see if they could not manufacture acetone from a new raw material—viz., calcium carbide. It might be explained that acetone was formerly made by the dry distillation of calcium acetate, which is a by-product in the distillation of wood, and that acetone is used in the manufacture of cordite as a solvent for the mixture of cellulose nitrate and nitro-glycerin. Work was undertaken for the British Government on the manufacture of acetone from the calcium carbide. This involved the following steps: (1) Production of acetylene from calcium carbide; (2) production of acetaldehyde from the acetylene; (3) production of acetic acid by the oxidation of the aldehyde. All these processes have now been successfully worked out by this firm at Shawinigan Falls, and the plant has been in operation since November 1916. For the period of one year they manufactured acetone, but at the end of this time the demand for acetic acid became so great that they discontinued the manufacture of acetone, and are now manufacturing acetic acid for the Imperial Munitions Board. This acetic acid is used in the manufacture of acetic anhydride and cellulose acetate. The cellulose acetate itself is used as a waterproof and fire-resistant coating for aeroplane wings. This new development, encouraged by the British War Office and Imperial Munitions Board, should prove of great value to the United States. The Government at Washington, after being informed of the development taking place at Shawinigan Falls, got in touch with the managers, with the result that they decided to double their plant and output. Deliveries will be made to the United States authorities early in October, when the output from this plant alone will be as great as, if not greater than, the capacity of all the countries in the world under the old process. The process now used is an entirely new one. It was developed from isolated text-book references, and is not now being used in any part of the world, with the possible exception of Germany.

BRITISH ARSENIC.—The output in Great Britain in 1917 was 2,626 tons, against 2,545 tons in 1916.

EXPORT OF SWISS DYES.—During 1917 Switzerland exported aniline dyes to the value of 87,000,000*fr.*, against 52,000,000*fr.* in 1916. The indigo export amounted to 10,000,000*fr.*, against 5,000,000*fr.* in 1916. England imported Swiss aniline dyes valued at 34,000,000*fr.*, and indigo valued at 3,000,000*fr.* The aniline-dye manufacture in Switzerland has always been an export industry, and the large figures quoted are due to the absence of German competition, says the "Norddeutsche Allgemeine Zeitung."

Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

BARNET.—The case of Mr. Frank Symms, dispensing chemist, and manager of a branch shop, was remitted from the St. Pancras Tribunal. Six months' exemption was granted.

CHATHAM.—Conditional exemption was granted to Mr. Wm. G. Mason, chemist's manager and dispenser.

CHESTERFIELD.—An appeal against the refusal of exemption to Mr. J. B. Wannop, chemist's manager, Cavendish Street, was dismissed by the Derbyshire Appeal Court.

DEWSBURY.—The Wakefield Tribunal recommended that W. H. Bateman, who was sent by the Ministry of National Service to do substitution service, be returned to the business of Mr. Richard Moss, manufacturing chemist, Old Westgate, Dewsbury. The exemption granted to Mr. G. H. Duncan, assistant to Mr. J. S. Flower, dispensing chemist, Ravenshorpe, was extended to November 1.

FARNWORTH.—The hearing of the appeal of a local chemist was adjourned to October 15, so that he could be re-graded. The Insurance Committee would not recommend him for exemption on account of the limited amount of Insurance dispensing which applicant does, but it was urged that his dispensing practice for private patients is very large, and that the sale of two-thirds of the drugs dealt in carries with it much responsibility.

HULL.—Before the Tribunal, on September 4, the claim for exemption of an applicant was dismissed, but he is not to be called up for a month. He said he is an analytical chemist, and doing work of national importance for several firms. He was a member of the British Association of Chemists. Captain Foster (a member of the Tribunal) said that at Birmingham it had been decided that the Association should be broken up. Members should go to the Institute of Chemistry for registration purposes.

HYTHE.—Mr. J. Juleff, chemist and druggist, assistant with Harcombe Cuff, Ltd., was conditionally exempted.

LEWES.—Mr. T. G. Young, chemist and druggist, assistant with Mr. J. C. Lloyd, chemist and druggist, was granted renewed exemption for three months.

LITTLEBOROUGH.—Mr. J. T. Sladen, clerk to S. Hall & Son, chemists, was exempted to January 31, 1919.

MAIDSTONE.—Six months have been conceded to Mr. J. S. Chesham, chemist and druggist, with Mr. F. J. Oliver, J.P., and to Mr. J. J. G. Greenhill, the only assistant left with Mr. F. R. Jennings, dispensing chemist.

MALVERN WELLS.—Mr. A. J. Colston, chemist and druggist, was exempted for six months.

MANSFIELD.—The Tribunal has granted six months to Mr. Alfred Hardy, for sixteen years traveller for Mr. J. H. Collins, J.P., chemist and druggist.

OLDHAM.—On review, the exemption held by Mr. J. Scholes, drug-store proprietor, was extended to December 31.

OXFORD.—Mr. C. J. V. Bellamy, Ph.C., was exempted for three months.

RADCLIFFE.—Mr. L. Ashworth, manufacturing chemist, was conditionally exempted to December 30.

SEVENOAKS.—Messrs. D. Finlayson and A. W. Pain, chemists and druggists, were exempted for six months.

SHEFFIELD.—The National Service Representative appealed against the following certificates of exemption: Mr. Turner, of Exell Bros., Ellesmere Road (granted); Mr. T. Daykin, chemist and druggist (given until February 28, not final); Mr. E. S. Perkins, chemist and druggist (September 28, final); Mr. C. G. W. Hopkins, at Boots, Ltd., High Street (September 28, final); Mr. N. E. Porteus, at Boots, Ltd., Shalesmoor (October 30, final).

SHOREDITCH.—The Volunteer condition attached to the exemption granted to Mr. E. C. Burton, chemist's foreman, was, on his application, varied to that of special constable. Mr. H. P. Jenkins, drug-store proprietor, who is cultivating a 15-rod allotment, was exempted from the Volunteer condition.

SOUTHWARK.—Thomas Holloway (Holloway's Pills and Ointment), 113 Southwark Street, was granted three months' exemption for his last remaining pill-maker.

WALTON-ON-THAMES.—Four months' exemption has been granted to Mr. A. Todd, chemist and druggist, with Timothy White Co., Ltd.

WOKING.—Mr. G. R. Holroyd, patent-medicine proprietor, has been given a month in which to obtain war work.

Councillor Hunt and Mr. Milner have been appointed to represent chemists on an Executive Committee formed at Greenwich to preserve one-man businesses the owners of which are called up or are liable for military service.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, September 5, 3 p.m.

BUSINESS in chemicals and drugs remains comparatively quiet, but the general tendency of quite a number of products is still upwards, as the table given below shows. The stabilising of the Italian exchange has placed all produce from that source on a higher level, this applying particularly to lemon and bergamot oils, citric and tartaric acids, orris, etc. We understand that permits for the exportation of pharmaceutical chemicals have been more readily granted, and quite a good business has been done with neutral countries in products which are plentiful on the spot, it being felt that a more serious effort must be made to influence the rate of exchange more in favour of this country. Aspirin continues to improve its position, and salicylates have also a firmer tendency. Milk-sugar is unsettled in view of the fixing of a maximum price by the Government. Bromide of ammonium has been substantially reduced, but no supplies are available in dealers' hands at the new rate. Quinine stocks remain extremely small on the spot, and as the new consignments are not in sight the position may become serious before they arrive. Soda tartarata and pulv. seidlitz have been advanced. In drugs, cascara sagrada has been sold at higher rates, and senega has been selling more freely at a slight reduction. Japanese refined camphor is dearer. Menthol and oil have shown a revival of speculative interest. Other changes include a further advance in clove oil, albumen, and crude antimony; sandalwood oil is easier. Spices show an all-round recovery on renewed speculation.

Higher	Firmer	Easier	Lower
Albumen	Bergamot oil	Pimento	Ammon.
Antimony ¹	Citric acid	Sandalwood	bromide
(Ch. cr.)	Lemou oil	oil	Galls
Aspirin	Menthol	Senega	Resorcin
Camphor	Mint oil (Jap.)		
(Jap. ref.)	Salicylates		
Canary-seed	Tartaric acid		
Cascara			
sagrada			
Clove oil			
Euonymin			
Mace			
Nutmegs			
Potash			
sulphate			
Pulv. seidlitz			
Soda			
tartarata			

Cablegram.

NEW YORK, September 4.—Business in drugs is quiet. Opium is lower at \$21.50 per lb. for druggists'. Cartagena ipecacuanha has advanced to \$3.50. Guarana is lower at 85c.; both long and short buchu have advanced to \$1.85, and copaiba balsam is lower at 80c. per lb.

AGAR-AGAR is steady, with sales of No. 1 Kobe strip on the spot at 3s. 4d. per lb.

ALBUMEN is dearer, with spot sales of prime hen at up to 5s. 4d.

ALOIN of American import is offered at from 5s. 9d. to 6s. 3d. per lb. on the spot, as to seller and quantity.

ANTIMONY.—While the position of regulus remains unchanged, with a fair demand for foreign parcels on the spot, the terms asked for Chinese crude are again much stiffer in view of the growing scarcity. Sellers at anything below 60l. per ton for small spot lots are hard to find, and this figure is now regarded as the nearest quotation. There has been no new development in the matter of importation, which remains prohibited except under licence. In regard to white oxide of antimony, we understand that the larger home producers of antimony devote more attention to this article in view of the demand by consumers. Stiff terms are asked, and business could probably not be done at less than 60l.

ARSENIC.—There is a fairly steady tone, but prices are very wide, ranging from about 105l. down to 95l., according to sellers and quantity. Imports continue light, shipping being the chief difficulty, especially from Australia. The American production of white arsenic for last year was officially returned as 6,151 short tons, compared with 5,986 tons for the previous year.

ASPIRIN.—With the improved position of raw materials, the market for aspirin has shown a rising tendency at from 14s. 6d., and even 15s. in some cases, but there is an occasional second-hand cheap seller. The export demand has been good, and makers are fairly well provided with orders at the advanced rates.

BALSAM TOLU.—There appears to be no more available at 10s., a limited quantity offering at 12s.

BARBITONE is still obtainable at 100s. per lb. on the spot.

BENZOIC ACID is becoming very scarce, and as makers are delivering very slowly people have to reconsider the question of importing again from the United States, in which case the price is likely to be maintained at a fairly high level.

BERGAMOT OIL is dearer at from 23s. 6d. to 25s. on the spot for 38 to 39 per cent. esters.

BISMUTH.—The metal remains entirely under control, with the official price at 12s. 6d. per lb. A steady business is being done by refiners, and consumption continues undiminished, although supplies seem ample.

BROMIDES.—The feature of the market is the reduction in ammonium bromide by about 5s. per lb. to 4s. 6d. in 1-cwt. lots and 5s. in smaller lots. This quotation does not of course apply to the open market (where 9s. 6d. is quoted), and is to regular customers only in limited quantity. We understand that the position in regard to the distribution of potassium bromide is still unsatisfactory, it being the fact that while a certain proportion of privileged customers are able to obtain sufficient supplies ex the Government stock, a number of druggists have been compelled to pay the higher prices ruling in the open market for the small lots they require, owing to the insufficiency of the Government consignments. It is, of course, realised that American makers cannot spare unlimited quantities for this market, and although the position is difficult to adjust, the fact remains that this partiality has led to adverse comment, as a number of firms have had to pay the higher price.

CAMPHOR (REFINED) is dearer, with spot sales of Japanese 2½-lb. slabs at 4s. 10d. to 5s. per lb., and ¼-oz. tablets at 6s. 6d. and buyers. The "Japan Gazette" says the manufacture of camphor in Japan proper and Formosa during the fiscal year ending March 31 amounted to 8,090,000 kin (1 kin = 1.32 lb.), of which 7,850,000 kin were sold by the Camphor Monopoly Office. The latter figures show a decrease of 3,780,000 kin, compared with the preceding fiscal year. The Monopoly Office has received many orders from Europe and America, but is unable to execute them all because of the growing demand for camphor on the domestic market. Of 7,850,000 kin sold by the Monopoly Office, 3,240,000 kin were supplied to camphor manufacturing companies, 630,000 kin to celluloid companies, while 260,000 kin were placed on the market. The remainder, 3,720,000 kin, has been shipped abroad. The authorities are now encouraging the export of manufactured goods and preventing the shipment of camphor as far as possible.

CAMPHOR OIL.—White essential Japanese is obtainable at 170s. per cwt. on the spot, being easier than our last quotation.

CANARY-SEED is considerably dearer, ordinary to good Morocco having been sold at 320s. to 325s. per quarter, and good to fine bold Spanish at 330s. to 360s.

CASCARA SAGRADA.—Spot sales in limited quantity have been made at 170s. per cwt. for fair two-year-old.

CASSIA OIL is quoted at 8s. for 80 to 85 per cent. e.a. on the spot.

CHLORAL HYDRATE.—The production in the U.S.A. has fallen off during the hot weather, and as small supplies only are coming forward the present shortage will continue. Importers offer duty-paid crystals at 16s. net.

CITRIC ACID.—The 25 per cent. rise in raw material and the fall in exchange in Italy has contributed to a substantial

rise of about 2*l.* per lb., up to 3*s.* 7*d.* being paid, and 3*s.* 8*d.* to 3*s.* 8½*d.* quoted at the close.

CLOVE OIL.—English distillers have raised their price to 24*s.* per lb., and in second-hands there are offers at 22*s.*

CLOVES have fluctuated, fair Zanzibar on the spot having been sold down to 2*s.* 10*d.* to 2*s.* 11*d.* at the close of last week, but since there have been sales up to 3*s.* 0½*d.*

CODEINE is unchanged at 30*s.* per oz. net for the pure crystals, and at 26*s.* for salts.

CORIANDEER-SEED.—New crop Morocco is firm at 67*s.* 6*d.* per cwt., but some holders are asking 70*s.* Old crop is slow of sale at 62*s.* 6*d.* per cwt.

CREAM OF TARTAR is firm, with sellers of 99 to 100 per cent. powder at 420*s.* on the spot, with occasional sales at beyond this price.

CUMIN-SEED.—Further sales of good new crop Morocco are reported at 60*s.* per cwt.

EUONYMIN.—Makers' list price for either green or brown has advanced 2*s.* to 19*s.* per lb. net.

FENCREEK-SEED is steady but quiet at 50*s.* per cwt. for new crop Morocco, and at 43*s.* for old crop. About 10,000 bags have arrived from India this week.

GALLS.—With better supplies, fair Persian blue offer at 270*s.* and white at 245*s.* per cwt.

GLYCEROPHOSPHATES.—Makers here are reported to be fully sold, but a limited quantity is coming forward from the Continent.

GUAIACOL CARBONATE is still available to a small extent at 110*s.* net.

HEXAMINE is obtainable at from 9*s.* 3*d.* to 9*s.* 6*d.*, but supplies are by no means large, as some importers have given up stocking.

HONEY is a very firm market, with a scarcity of Jamaica, which has been sold at a considerable premium on last week's auction rates.

HYDROQUINONE continues steady, with the absorption of stocks as soon as they arrive; 17*s.* 6*d.* is quoted in kegs.

HYPOPHOSPHITES.—Lime is offered at 4*s.* 3*d.*, soda at 4*s.* 6*d.*, and potash at 7*s.* per lb. net.

IPECACUANHA.—Arrivals aggregating 115 bales have taken place to London this week.

LEMON OIL.—Owing to the fixing of the Italian rate of exchange on a much more favourable level to that country, the prices to arrive are now higher at from 4*s.* 3*d.* to 4*s.* 6*d.* per lb. c.i.f., and in some quarters on the spot from 4*s.* 6*d.* to 5*s.* is asked.

LIQ. PLUMBI SUBACET. is quoted by makers at 64*s.* 6*d.* per cwt.

MENTHOL is dearer on the week, with spot sales of Kobayashi-Suzuki at from 16*s.* 4½*d.* to 16*s.* 6*d.* per lb. There has been a renewal of speculative interest.

METHYL SALICYLATE.—Current spot is about 7*s.* per lb.; very little has been coming forward lately.

MILK-SUGAR.—Market is very sensitive in view of the fact that the Government purchases for distribution to the trade will shortly be available, the allocation of which will probably be made at a price appreciably below the present market value, so that it looks as if the extensive dealing and speculation in this chemical will shortly come to an end. A New York advice, dated August 13, reports that producers are well sold up, and are only offering in small lots. A leading holder quotes 56*c.* to 58*c.*; the demand continues good.

MINT OIL.—Japanese dementholised is firm with spot sales at 4*s.* 6*d.* for Kobayashi-Suzuki, and 4*s.* 7½*d.* asked; to arrive, the sales include September-November at 4*s.* 3*d.* c.i.f.

MORPHINE.—Makers' prices remain at from 19*s.* to 19*s.* 6*d.* per oz. for hydrochloride-powder, as to quantity.

NEROLI OIL.—Pure French continues very dear, importers quoting 31*s.*

ORRIS.—Owing to the fall in the Italian exchange current spot value of Florentine sorts is dearer at about 135*s.* per cwt.

PARALDEHYDE is offered at 10*s.* per lb., but the position being unsatisfactory importers have ceased to bring forward.

PEPPER has fluctuated, fair black Singapore towards the close of last week selling at 1*s.* 11*d.* down to 1*s.* 9½*d.*, Tellicherry and Aleppy at 1*s.* 11½*d.* down to 1*s.* 10*d.*; prices this week show a recovery, with sales of Singapore at 2*s.* 1*d.*, value of fair Tellicherry being 2*s.* 2*d.* and Aleppy 2*s.* 1½*d.* White pepper is firm, with spot sellers of Muntok at 3*s.* 7½*d.* and Singapore at 3*s.* 7*d.*

PETROLEUM JELLY.—Good white is selling at from 195*s.* to 197*s.* 6*d.*, lemon white at 130*s.*, and yellow at 77*s.* 6*d.* per cwt. on the spot.

PHENACETIN is still weak, and there is a good deal of keen competition, although raw material is dearer.

PHENAZONE.—There is still a prohibition on exports from Switzerland, and no consignments are coming forward from

that source. Spot prices are from 46*s.* 6*d.* to 47*s.* 6*d.*, as to quantity.

PHENOLPHTHALEIN is by no means plentiful at the moment, but some lots are coming forward by post from America, and they will find a ready sale at from 50*s.* to 55*s.*

PIMENTO has been sold at from 6½*d.* to 7*d.* on spot, with further sellers at the latter figure.

POTASH SULPHATE.—B.P. powder has advanced to 1*s.* 5*d.* per lb. net, and slightly less for cwt. lots.

QUININE.—In view of the scarcity, those who have any stock can dictate their own price. Small sales have been at from 4*s.* 3*d.* to 4*s.* 4*d.*, but some are holding off, and look for a higher market. It is difficult to say what may happen, as the new consignments are not in sight, and several weeks may elapse before any relief is afforded.

RESORCIN.—Sales have been made at 42*s.* 6*d.*, which is lower than our last quotation.

SACCHARIN is unchanged, with sales of American 550 pure at 262*s.* per lb., duty unpaid, which is equal to 394*s.*, duty paid, from which figure prices range up to 400*s.* A New York advice, dated August 8, reports that saccharin has easily been the leading feature of the market, very heavy buying having been done, and up to \$37.00 has been paid for insoluble; orders have been heavy for both domestic and foreign consumption. Japan has placed an order for 1,000 lb.

SALICYLATES.—The general position is firmer, as some important business has been done for export to neutral countries, which is materially relieving the congestion in makers' stocks, and the position is now healthier. Several of the makers of salicylic acid have sold their production for some months ahead, and they hold firmly for 4*s.* 6*d.*, and sales for export have been made at from 4*s.* 9*d.* to 5*s.* Salicylate of soda has also slightly improved in sympathy with acid, and the price is now from 6*s.* 3*d.* to 6*s.* 6*d.* for powder.

SALOL has not responded to the improvement in salicylates, and it can still be bought at from 9*s.* 3*d.* to 9*s.* 6*d.* per lb. on the spot. A revival in export demand is necessary before any improvement takes place.

SANDALWOOD OIL.—Arrivals of several consignments of Mysore Government distillation have taken place, showing 94 per cent. santalol, and the consignees offer at 50*s.* per lb. net in original packages in bulk quantities.

SENEGA has a temporary easier feeling at 7*s.* 9*d.* per lb. on the spot.

SHELLAC is quiet, with sellers of the usual standard TN Orange quality at from 355*s.* to 340*s.*, and good at 345*s.* on the spot; cakey AC Garnet is 330*s.*, and pure button 350*s.* per cwt.

SODA HYPOSULPHITE.—A consignment of pea crystals of fine quality will shortly be available at about 55*s.* per ton.

SODA TARTARATE.—Makers have advanced their price to 192*s.*, and *pulv. scidlitz* is also dearer at 148*s.*, these being the list prices.

STARCH-POWDER.—Japanese *farina* is firm at from 81*s.* to 82*s.* for No. 1 on the spot, and at 78*s.* 3*d.* c.i.f. for September-November and October-December. *Maize starch* is scarce, but some will be available shortly at 125*s.*, and the same applies to *wheat starch*, which will be available at 110*s.*

SYRUPS are quoted at 60*s.* per cwt., less 3 per cent., in bulk, and at 80*s.*, less 5 per cent., in cases. It is reported that golden and other syrups are to be rationed to the public in November.

TAMARINDS.—A limited quantity of Antigua in bond offer at 140*s.* per cwt.

TARTARIC ACID is firmer at 3*s.* 7*d.*, market showing a rising tendency owing to the heavy decline in the Italian exchange. A large business has been done for 1919 delivery.

TURPENTINE is firm at 120*s.* per cwt for American on the spot to permit-holders.

VALERIAN remains firm, fair Spanish offering at 350*s.*, and Indian at from 340*s.* to 345*s.*

WAX, VEGETABLE.—Japanese is firm, the spot value of good squares being 125*s.* per cwt.

ZINC PRODUCTS.—The outlook continues stringent. The scarcity of zinc dust is still pronounced, while arrivals from abroad are limited, although Australian high-grade should become available this month. The c.i.f. price quoted for this is 108*l.* Very little English is obtainable, and this consists of low-grade, ranging from 70 to 75 per cent. of metallic zinc, which costs 90*l.* per ton at works. In regard to the American zinc industry efforts are to be made under the auspices of the American Zinc Institute, created recently to develop the consumption of all zinc products, especially in the chemical trades, in order to enable zinc producers to restore their operations to an extent more in line with their resources. Preparations are thus being made anticipatory of the end of the war.

American Glycerin for War.

A Committee representing the American soap manufacturers has agreed with Federal officials upon a "gentleman's agreement" to maintain a standard price upon glycerin. This in reality is equivalent to fixing the price. Government officials have not made the price public, but it is said that the agreement calls for 60 cents during August and September, 58 cents during October and November, and 56 cents in December. The agreement was reached (says "Drug and Chemical Markets") without the slightest friction because of the spirit of patriotism on the part of the manufacturers, many of whom have sons in the Army and Navy, and were ready to meet the Government on all points which would help win the war. The conference was the result of inquiries by Government officials for supplies of dynamite glycerin needed by Great Britain and Italy. It is estimated that several thousand tons will be required in the next five months. A tentative understanding was reached that the manufacturers would supply the amount in monthly quantities at the prices agreed upon. The contracts are being drawn, but the Government has made no announcement, and no sale has actually been consummated.

Italian Olive Oil.

The once great trade carried on in olive oil (says "The Times" Trade Supplement) has latterly become very depressed. Both olives and the oil have been most difficult to obtain since the war. The exports from Italy of olive oil for the three years of 1915, 1916, and 1917 have shown a great shrinkage, as the subjoined figures prove:

		Quantities.	Value.
		100 kilos.	Lire
Exported in 1915	...	412,679	61,633,000
" 1916	...	102,373	18,429,000
" 1917	...	84,017	11,542,000

But olive oil was only one of the articles that fell off during last year; taking the whole of those ranged under the heading of "Chemicals, medicinals, resins, and perfumery," and comparing the totals of the exports with those for the year of 1916, we see that there was a decline in value of no less than 204,000,000 lire. The significance of this heavy decrease is the more serious when we remember that the cultivation of the olive is second in importance only to that of the cereals. In Sicily and in the provinces of Reggio, Catanzaro, Cosena, and Lecce the olive-tree flourishes freely and without shelter; as far north as Rome, Aquila, and Teramo it runs the risk of damage by frost every ten years or so. The proportion of ground under olive is no less than from 20 to 36 per cent. at Porto Maurizio, and in Reggio, Lecce, Bari, Chieti, and Leghorn it averages from 10 to 20 per cent. As to the oil produced in Italy, something like 80,000,000 gals. are pressed annually.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

To London (August 24 to 30).	Nux vomica, 1,500 pockets	To Liverpool (August 26 to 31).
Bronze-powder, 14 cs.	Papain, 13 cs.	Chemical products, etc.
Canary-seed, 85 bgs.	Senna, 38 bls.	Betanaphthol, med.,
Chemical products, etc., unrated, 25 bls.	Dyestuffs, dyeing and tanning materials, un- rated, 194 bls. 320	4 cs.
38 cs. 3 cs.	cs.; cochineal, 20	Citric acid, 60 kgs.
Arsenic, 25 cwt. 163	bgs.; cutch, 300 bxs.;	Cream of tartar, 40
cs.	divi divi, 1,096 pkgs.;	cs.
Bromides: potash,	indigo, 54 chits.;	Iodine, 285 kgs.
39 cs.	logwood ext., 52	Potash chlorate, 200
Cream of tartar, 8	bls.;	bls.
cks.	myrobalans,	Potash carb., 91 cs.
Magnes. carb., 200	10,281 pockets;	Soda nitrate, 22,918
pkgs.	tanners' bark, 408	bgs.
Milk-sugar, 100 cs.	tons	Dyeing and tanning
Morphine hyd., 1	Fullers' earth, 5 tons	materials:
basket	Gelatine, 30l.	aniline
Potash carbonate,	Loofahs, 28l.	colours, 4 bls.;
525 cs.	Perfumery, unrated	cutch, 2,350 bxs.
Saltpetre, 6,000 cwt.	(mostly raw mate-	2,275 cs.; fustic
Soda, unrated, 155	rials), 2,583l.; toilet	wood, 10 tons; gam-
cwt.	powder, 825l.	bier, 4,069 cs.;
Sulphonal, 1 cs.	Plumbago, 4,657 bls.	indigo, 4 chits.;
Dari-seed, 263 bgs.	218 cs. 1,898 bgs.	logwood ext., 450 cs.;
Drugs, etc., unrated,	Starches (cwt.): corn,	myrobalans, 4,500
97 pkgs. and 255l.;	375; farina, 3,573;	pockets 1,300 bgs.;
med. plasters, 27 cs.	maize, 2,465; po- tato, 12,305	quercitron ext., 130
Anise oil, star, 565	Wax, bees', 13 bls.	bls.;
cs. 180 pkgs.	Wax, paraffin, 1,613	sumac, 11,048
Camphor, 1,245 cs.	cwt.;	bgs. 570 bls.
Camphor oil, 200 cs.	scale, 3,866	Lithopone, 175 bls.
Fenugreek - seed,	cwt.	Pumice - stone, 2,155
10,533 bgs.	Wax, vegetable, 595	bgs.
Gamboge, 11 cs.	cs.	Wax, bees', 10 cs.
Menthol, 217 cs.	Zinc oxide, 55 cs.	Wax, paraffin, 5,571
		bgs. 1,545 bls.
		Wax, vegetable, 29 bgs.
		Zinc oxide, 1,520 bls.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Conveyance of Celluloid by Railway.

Mr. A. Clunie, druggists' sundriesman, Manchester, claimed from the carriers for some celluloid combs which were alleged to have been abstracted from a package of goods sent to a customer. The carriers passed on the claim to the railway company, and as a result Mr. Clunie received the following letter:

We submitted your claims invoice on the railway company concerned in the transit of the consignment. They definitely decline to entertain same, pointing out that you did not declare the true nature of the goods at the time of forwarding. It is ascertained that the combs were made of "celluloid," which is an inflammable substance, and not accepted by railway companies for transit except under certain conditions of contract. Having regard to the railway company's very decisive ruling, we are unable to pursue the matter further, and ask that you will please have the amount withdrawn from our debit. Will you also please note that we cannot accept any similar consignment from you unless the true nature of the contents is plainly indicated on the package or on the address label?

Mr. Clunie sent the following reply:

In reply to your favour of July 25 in which you decline my claim for goods pilfered from parcel on the ground that the missing articles were celluloid, I am sorry that I cannot accept the railway company's decision as being satisfactory or equitable, and I can only regard their ruling as a quibble to escape their liability for the pilferage. It is rather ridiculous to suggest that a consignment of goods is a consignment of "celluloid" goods because the parcel happens to contain a small proportion of articles made of or containing this material. In the present instance the parcel was one of mixed druggists' sundries, and the total value of the celluloid articles was 10s. out of a sum of 6l. 8s. 6d. worth. There are very few parcels of general druggists' sundries that do not contain some small quantity of celluloid, and a ruling such as referred to above would practically preclude the use of the passenger service in connection with our class of trade. I would suggest that you would hardly describe a consignment of shirts with celluloid buttons as a consignment of celluloid goods, and that is a fair analogy to what has been done in this case. I must ask you to convey my remarks to the railway company with the intimation that I still press my claim as originally submitted for the sum of 7s.

Mr. Clunie asks for the comments of our subscribers on the point as to when a consignment of goods containing a small proportion of celluloid articles should be declared as being celluloid.

Elliman's Embroglio.

SIR.—The best way to settle this controversy would be for Messrs. Elliman to put their embrocation on the P.A.T.A. and give the trade a clear 25 per cent. on selling prices. We have written to them ourselves to this effect, and until this is done shall not handle it (after our present stock is cleared). But this matter is not an isolated case: it raises the whole question of proprietary articles and the profit thereon. The time has now come when all these goods should be sold at face-value, and, as one of our correspondents very aptly remarked, if we had a good strong trade union they would settle the matter out of hand without any palaver. If prices are the same everywhere the public don't mind what they do not like is being charged different prices for the same article, and rightly so, too. What is the Face Values Committee doing?

Yours faithfully,

Newbury.

HICKMAN & METCALF.

SIR.—May I suggest that every chemist in business subscribe a small sum for each retail establishment to found a company to advertise and promote the sale of a good household embrocation bearing a profit to the retailer? I suggest that a sum of 5l. for each shop will probably provide ample capital for a start. Every shareholder should pledge himself to give a good window-show at certain periods of the year decided upon by the Executive. A manager should be appointed at a salary, which should be supplemented by a bonus in proportion to the success of the undertaking. Worked somewhat on these lines there is no reason why the retailer should not secure a better profit on the article in the shape of combined dividends and direct profit than he can make by packing his own lines in his small way. Messrs. Boots and other big houses will probably not object to holding stock either as shareholders or as purchasers from the company. The co-operation of

every retailer should be sought, but shareholders should be limited to registered chemists and registered chemists' companies. Combined pushing of this description—above all, universal window-shows—would soon enable a certain brand of embrocaion now unfortunately on our shelves to be put to another use. I understand there are difficulties of supply—turpentine, etc.—but I anticipate combined chemists' influence should overcome such drawbacks. Also, of course, fair treatment of wholesale houses has to be considered.

Yours sincerely,

SIDNEY LANE.

SIR,—In writing you my experience I hope you will see your way to publish my letter that it may benefit and be of assistance to "the craft" generally. The inability of the public to obtain Messrs. Elliman's goods is prompting them to ask the reason, and by telling them the truth and letting them into the secret of the miserable profit allowed us I am really surprised to find to what a great extent they sympathise with us, and it is the easiest thing imaginable to sell other, and doubtless equally good, embrocaions that do bear a living profit. The method suggested has answered in the great majority of cases, and on only one occasion have I suffered a (temporary) rebuff, and that was from a lady who went out informing me that "that was no affair of hers." Much to my surprise she returned very shortly for "a bottle of the embrocaion that I recommended." As a proof of my confidence and the results attained during the past two or three weeks I have quadrupled the usual order of embrocaion from my drug-house.

Yours faithfully,

Edmonton.

FREDK. J. A. HAYS.

Window-displays.

SIR,—The tendency of many advertising firms, who in the past have been accustomed to give a bonus in goods or cash on purchases of specified quantities in consideration of a window-display being made, to suspend this arrangement is becoming increasingly common, and the fact that many chemists are still displaying these goods in their windows is an invitation to other proprietors to get their advertising *gratis* also. Now, a chemist's window should be worth at least as much as an advertisement hoarding, and should be paid for accordingly, particularly at the present time, when, owing to the curtailment of newspaper space and other advertising means involving the use of paper, it offers the cheapest and most effective means of bringing goods to public notice, and it is up to us to see that no goods or show-cards are exhibited unless adequate remuneration is received apart from the profit on the article. I am not attempting to dictate terms to anyone, but in fairness to those who have rents to pay this is a subject which merits consideration, and I appeal to all local Associations to bring it to the notice of their members, as, should the custom of giving free window-shows become general, we have small hope of again getting remuneration for them.

Yours faithfully,

LIVE AND LET LIVE. (169/71.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Jay Macksims

(as he Writes them).

1. John Humphrey's horse is a fine high kieber: too high to work.
2. College work before shop would create ideas at ago seventeen quite incompatible with work like ours.
3. It would hinder selecting the "right sort": we have plenty of the "wrong sort" already.
4. Barrie's "Stiekit Minister" was a hit at "duds" in professions: the medical is full of them, as we know too well.
5. Study up to seventeen would simply induce them to go on to the University and still leave us our problem, how to teach our present staffs.
6. "No poo": You must mix shop work with postal study, and the Registrar must write students two or three times a year.
7. If all drug-shops were superbly fitted palaces, employing porters and boys, the plan might have a chance—on the Continental plan of restricted pharmacies.
8. But porters and boys have gone for their good, and dirty work will fall to the lot of the apprentice of age seventeen. Somebody must do it.
9. And "dinna forget" the unqualified "waifs and strays" are 40,000 strong, are running the shops, and letting more than one Councillor off to his pleasant meeting at Bloomsbury.

Verb. sap. sat.

Dispensing Difficulties and Notes.

Thymol Lotion.

SIR,—Will you please tell me the correct way of dispensing the following, and also say what the prescriber means by "potassæ"?—

Thymol	...	...	...	...	3j.
Potassæ	...	...	...	...	3j.
Glycerin.	...	...	...	...	5ss.
Aq. sambuci ad	...	...	...	...	5viij.

Ft. lotio.

Yours truly,

H. S. (150/71.)

[Potassæ is potassium hydroxide. Place it and the thymol in a mortar and triturate them together; then add gradually 7½ oz. of elder-flower water, continuing the trituration till solution of the thymol is effected; finally, add the glycerin and shake. The result is a water-clear solution.]

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

A. G. (164/66).—It is not illegal to use saccharin as a sweetening agent in beverages, but if you led a customer to believe that he was being supplied with a sugar-sweetened liquid, it is conceivable that proceedings could be taken against you under the Sale of Food and Drugs Act or the Merchandise-marks Act.

C. F. S. (158/33).—THE CORN LEAF is liable to stamp-duty, owing to its title and also because of the directions for use. Without the title or directions customers would not know what are the uses of the remedy. A corn-cure consisting of an entire drug could be sold by small shopkeepers without being liable to duty.

Anxious (168/7).—MILITARY SERVICE.—The chief difficulty in your case is that the Ministry of National Service have power to call on you for substitution purposes, otherwise we should advise you to purchase the business. It may be that there are circumstances in connection with the business you propose to acquire which would be in your favour in case the National Service Representative intervened.

H. B. (161/14).—MORNING DRAUGHT.—We gather from part of the wording of the labels that this is a saline preparation, and as such is exempt from stamp-duty. The exemption includes "all artificial mineral waters and all waters impregnated with soda or mineral alkali or with carbonic-acid gas, and all compositions in a liquid or solid state to be used for the purpose of compounding or making any of the said waters."

W. S. H. (161/10).—Does the loss fall upon the seller or the consignee when goods are pilfered in transit and the carrier cannot be held liable? Is it the duty of the seller or the consignee to notify the carrier in the event of suspicion arising that goods have been pilfered in transit? [As a general rule, delivery of goods by a seller to a carrier for conveyance to the buyer places the goods at the risk of the consignee, and the consignee is therefore the proper person to notify and, if necessary, take legal proceedings against the carrier in the event of the goods being lost or damaged in transit.]

B. & Co. (162/8) have a quantity of saccharin, on some of which duty at the rate of 6l. 12s. per lb. has been paid—that is, at the full rate chargeable on saccharin—and some of which is still lying in bond. On examination it has been found that the strength of the saccharin is under 500, and our subscribers ask whether in these circumstances they are entitled to any rebate from the full rate of duty. [No rebate can legally be claimed in such a case. The Act imposes a duty of 3s. 3d. per oz. on "saccharin or substances of a like nature or use," without any reference whatever to the strength of the article. We doubt, therefore, if the Board of Customs and Excise have any power to lower the rate of duty. We can also recognise that grave difficulties in the application of the drawback laws might arise if they did. We suggest that "B. & Co." should devise some means of purifying the saccharin, and when that has been done they might apply to the Board of Customs and Excise to be allowed to purify it, the duty to be levied only on the finished product. Particulars of the proposed process ought to be sent with the application to the Secretary to the Board at the Custom House, Lower Thames Street, London, E.C. 3.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. V. R. (150/72).—APPRENTICESHIP.—The modern tendency is to pay direct wages to apprentices to chemists, against the older plan of a premium or the repayment of a premium as wages in the latter years of the apprenticeship. Three or four years is the term, against four or five a few years ago. The wages paid vary from 5s. a week at first up to 22s. 6d. for the fourth year. In Scotland, we were informed last year, the wages given amount to 10l., 15l., 20l., 25l. yearly, but wages are by no means standardised.

T. H. (147/31).—THE REPORT ON MALARIA, which was published recently by the Local Government Board (New Series, No. 119), is obtainable at the Stationery Office, Kingsway, London, W.C. It consists of a series of reports on the outbreak of malaria in the United Kingdom during 1917.

B. O. Co. (131/30).—OVERCOMING THE TOBACCO-HABIT.—Various drugs have been suggested as useful in combating excessive craving for smoking. These are generally bitters, such as gentian and cinchona, which are made into tablets for chewing, with liquorice extract. The bark of the tulip-tree (*Liriodendron Tulipifera*) was at one time recommended for the purpose; the bark, which is bitter, is to be chewed.

Radio (164/54).—PRELIMINARY EXAMINATION.—As you say, we recommend pharmaceutical students to take Latin as one of the optional subjects in any of the examinations accepted by the Pharmaceutical Society. As your son has failed in Latin, but has passed in sufficient subjects, it is not necessary that he should sit for Latin alone. It will make no difference to him when he goes in for the Qualifying examination, as candidates are examined in Latin as applied to prescription-reading.

P. J. A. (163/17).—CLEANING GREASY BOTTLES.—The last time this subject was ventilated in THE CHEMIST AND DRUGGIST the decision was that the easiest treatment for oily bottles was to boil them in a strong solution of washing-soda. A lye which answers even better is made by mixing 7 lb. of ordinary washing-soda and 3 lb. of slaked lime with 12 gals. of water. Allow to settle, and use a pint of the solution to 4 gals. of water.

W. J. D. (134/23).—SUGARLESS LEMONADE-POWDERS.—See *C. & D.*, April 20, p. 43.

Tabella (167/25).—MAKING TABLETS.—The granulating process which is required for the mixture of saccharin and sodium bicarbonate consists in damping with a suitable liquid and then forcing the damp mass through a sieve (about No. 12 to 20), which forms the granules, these being sifted. Small lots are conveniently mixed in a mortar, but on a large scale special machines are employed. The moist mass is forced through the sieve by means of the palm of the hand or a block of hard wood. There is no objection to the use of spirit as a moistening agent, except its cost. We mentioned the use of theobroma emulsion (*C. & D.*, July 6, p. 52) for this purpose on account of its cheapness. The amount of diluent required in making saccharin tablets is very small—many do not contain any—and there can be little objection to the presence of a fraction of a grain of sodium sulphate in a tablet. You may, however, be able to hit upon some soluble substance other than sugar which will answer your purpose.

Dental (167/16).—DENTAL SIDE-LINE.—There are two sides to the question as to what proportion of the profits your employer should receive, if you as his assistant introduce dental business. As the instruments belong to you, and you intend purchasing all materials and carrying out the mechanical part, we suggest that you should share the profit equally. You will remember that your employer is paying you a salary, and that you are carrying on the dental business in ordinary shop-hours.

J. J. K. (166/70).—TICKET-WRITING INK.—Evaporate writing-ink to half its bulk and mix with mucilage of acacia or shellac solution (see *C. & D.*, November 4, 1916, p. 52).

Menthol (135/41).—You can saturate water with oil of peppermint, as in making peppermint-water, but the solubility of the oil is much increased if spirit is employed in place of water.

F. J. (147/60).—FORMIC ACID.—If you mean a mixture of 40 volumes of 98-per-cent. acid with 60 volumes of water, the actual strength of the mixture will be rather less than 45 per cent., and you will require to add sufficient of the 98-per-cent. acid to raise the specific gravity of the mixture to 1.12 in order to make the strength exactly 50 per cent. The following are the strengths and specific gravities of the acid as usually found in commerce: 98-per-cent., of s.g. 1.225; 90-per-cent., of s.g. 1.2; 80-per-cent., of s.g. 1.18; 65-per-cent., of s.g. 1.16; 50-per-cent., of s.g. 1.12; 25-per-cent., of s.g. 1.06.

Curious (161/41).—NITROGEN IODIDE is a black powder formed when excess of aqueous or alcoholic ammonia is added to a solution of iodine in potassium iodide. There are several other methods of making it. The powder when dried decomposes spontaneously, with a very slight detonation either when touched or when slightly heated—it explodes violently when thrown into boiling water. In certain circumstances nitrogen iodide might, as you have been told, explode when blown upon by the wind, but as a rule a heavier touch is required.

H. B. & Co. (135/2).—LIQUOR ANTISEPTICUS.—The following formula for antiseptic solution was official in the United States Pharmacopœia, 1905:

Boric acid	...	...	20	grams
Benzoic acid	...	...	1	gram
Thymol	...	...	1	gram
Eucalyptol	...	...	0.25	c.c.
Oil of peppermint	...	...	0.50	c.c.
Oil of gaultheria	...	...	0.25	c.c.
Oil of thyme	...	...	0.10	c.c.
Alcohol (95-per-cent.)	...	...	250	c.c.
Purified talc	...	...	20	grams
Water to	...	...	1,000	c.c.

Dissolve the boric acid in 750 c.c. of water and the benzoic acid in 150 c.c. of alcohol, and pour the aqueous solution into the alcoholic solution. Then dissolve, in a mortar, the thymol in the eucalyptol and oils of peppermint, gaultheria, and thyme; thoroughly incorporate the purified talc, and add, with constant trituration, to the solution first prepared. Allow the mixture to stand, with occasional agitation, during forty-eight hours, filter, add 100 c.c. of alcohol to the clear filtrate, and a sufficient quantity of water to make the finished product measure 1,000 c.c.

A. J. S. (142/73).—STRAW-HAT VARNISH.—The dull variety is made as follows:

Orange shellac	...	...	15	parts
Powdered resin	...	...	25	parts
Powdered naphthalene	...	...	1	part
Boric acid	...	...	3	parts
Spirit	...	...	60	parts

Dissolve the shellac and resin in the spirit; strain, and add the other ingredients. The necessary colour is supplied by dissolving in this medium spirit-soluble aniline dyes in the proportion of 1 oz. to a gallon.

S. H. (144/66).—AQUEOUS IODINE SOLUTION.—Under the name of liquor iodi *co.* or Lugol's solution this is official in the United States Pharmacopœia. The formula is:

Iodine	...	...	5	grams
Potassium iodide	...	...	10	grams
Distilled water to produce	...	...	100	grams

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1868.

Homœopaths and the Pharmacy Act.

Our homœopathic friends may be reminded that the folly of locking the stable door when the steed is stolen is proverbial. In the early part of last week the homœopathic chemists and medical practitioners met to discuss the Pharmacy Act, which became law on the 31st of July, and the result of their deliberations was the appointment of a committee, authorised to take such steps as might be necessary to preserve the rights of homœopathic chemists. Had the leaders of the homœopathic body been influenced by even infinitesimal doses of common sense, we should have heard of their objections to the prescribed regulations months ago, when the whole scheme of pharmaceutical legislation was under discussion. Then their claims and protestations might have induced Parliament to make due allowances for the especial character of the calling of a homœopathic chemist. Now they can hardly hope to re-open a subject which has been disposed of by the passing of an Act.

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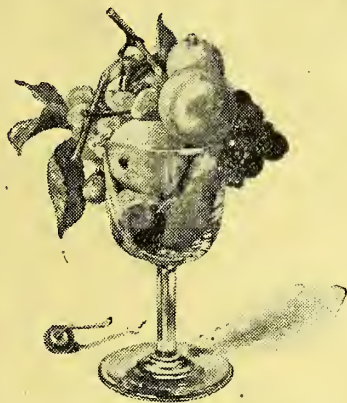
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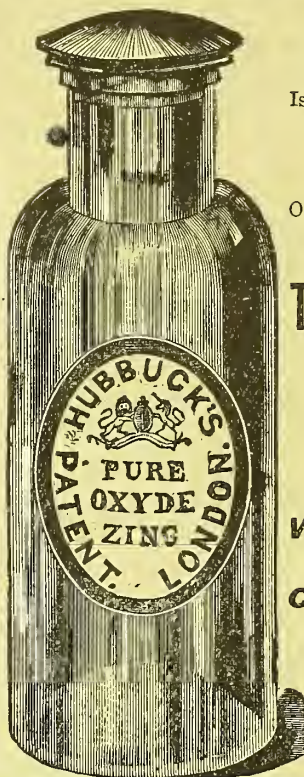
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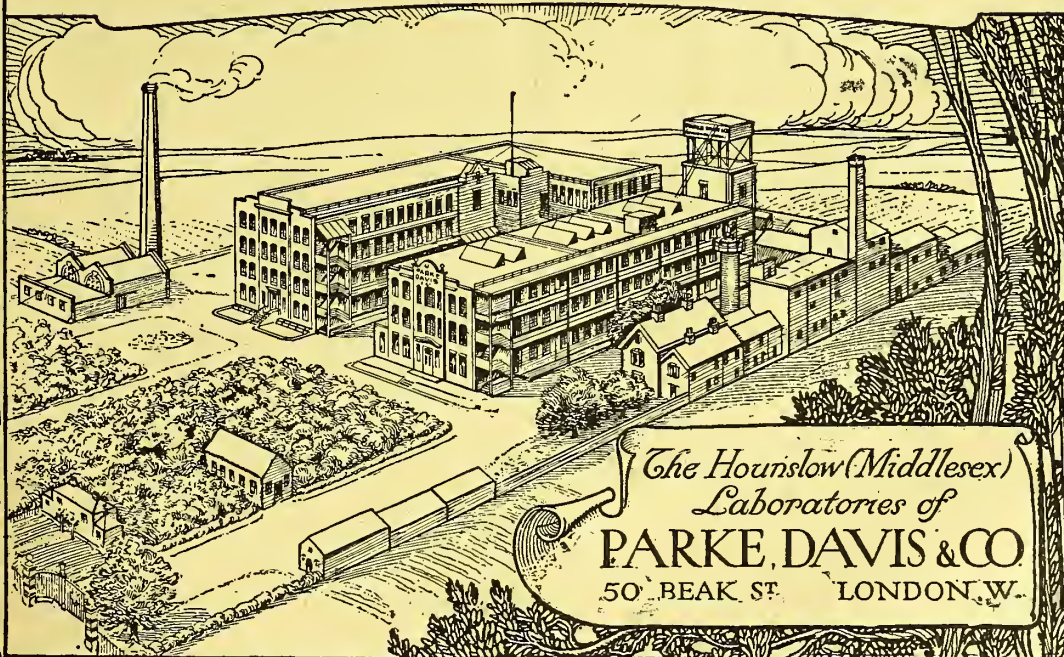
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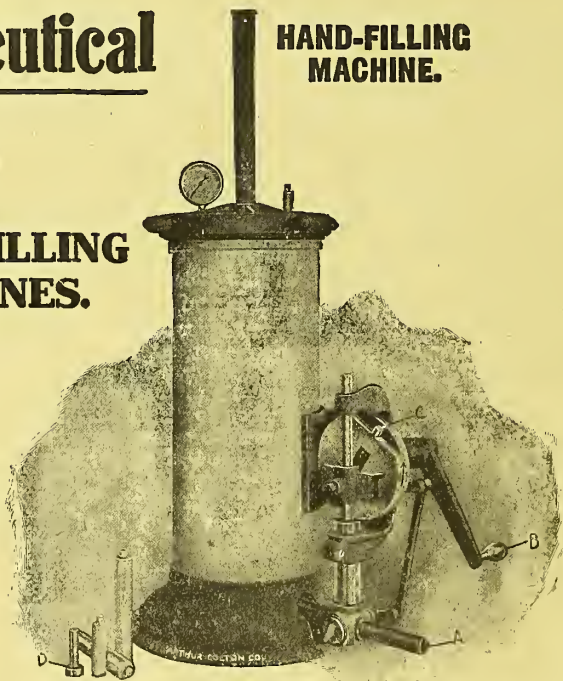
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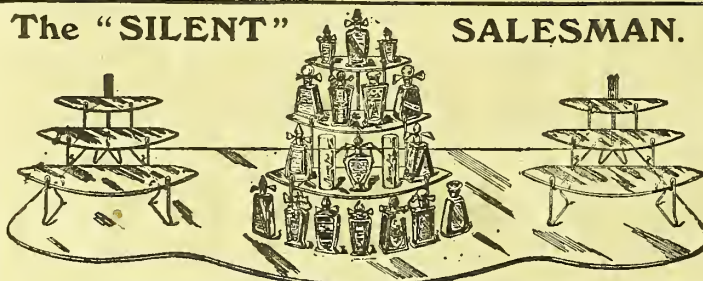
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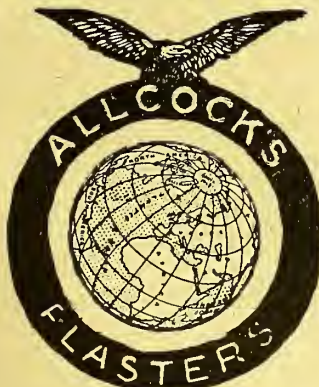
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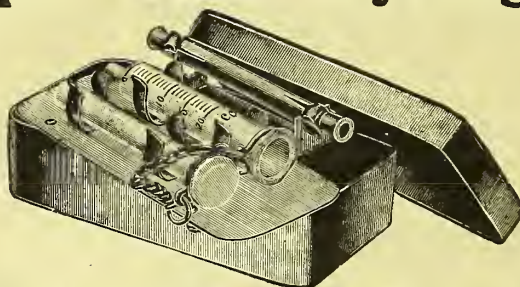
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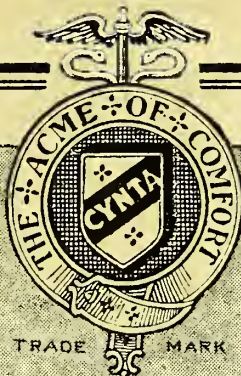
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Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

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A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

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Price £1 4s., £2 4s., £5, and £10 10s. ; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

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CREWE, ENGLAND.

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CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—KENT (Within Easy Distance of Town).—Good middle-class Business; returns about £1,500; net profit £360; price, to include £90 book debts, £750; part payment.

2.—BANKS OF THE THAMES.—Very old-established Business; held by vendor many years, now retiring; returns about £1,100; profits above the average; first reasonable offer will be accepted.

3.—LONDON, S.E.—For immediate disposal, ready-money Retail; returns average over £500 per annum; net profit £250; comfortable residence; rent £46; on lease; no near opposition; first reasonable offer will be accepted.

4.—LONDON, N.—Cash Retail Business and own Proprietaries; position is exceptionally good, and the returns can be much increased; present rate about £1,200; owing to a breakdown in health an immediate sale must be effected; terms, valuation of stock and fixtures.

5.—KENSINGTON, W.—Dispensing and Retail Business; returns £800, formerly £1,000; well-fitted shop and comfortable residence; held on lease; first reasonable offer accepted; death cause of sale.

6.—WILLESDEN.—Ready-money Business; established many years; returns, present rate, £30; weekly rent £50; no immediate opposition; price £350.

7.—LONDON, N.W. (Main Thoroughfare).—Good-class Business; Retail and Dispensing; net profit exceeds £500; well-appointed shop, nicely fitted and fully stocked; valuation terms would be considered, or lump sum offer.

8.—KENT.—Ready-money Business, with N.H.I. Dispensing; returns, including branch, over £12,000 at good prices; terms, one year's net profit for goodwill; stock and fixtures by valuation.

9.—WESTERN COUNTY (Death Vacancy).—Dispensing and Family Retail Business; established upwards of 50 years; returns £654 at fair prices; good residence; rent £45; no opposition; terms, stock and fixtures by valuation; estimated at £320.

10.—SOLENT (Near).—Established Business; Retail, Dispensing, and Prescribing; returns between £500 and £600 at good prices; very few patents sold; rent moderate; price about £300.

11.—A profitable old-established country Business in centre of market town, Gloucestershire, giving net profit £270; double-fronted shop and good residence; valuation terms entertained.

12.—MIDLANDS.—Ready-money Retail, with little N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

13.—WEST MIDLANDS.—Well-established Business; returns between £1,600 and £1,700; good corner position in one of the main streets; large roomy house with private entrance; nice garden and greenhouse; price about £1,000.

14.—BUCKS.—Dispensing and Retail Business; all good class; returns, present rate, between £1,700 and £1,800 at good prices; stock and fixtures estimated at £900; vendor's own property; lease will be granted, or property may be purchased; price £1,200; good personal introduction would be given; vendor retiring.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

LONDON SUBURB, N.E.—Progressive Cash Retail; last year's returns £1,600; rent £42; established 17 years; no N.H.I.; price £550. Address "H." (279/2), Office of this Paper.

NOTTS.—Business for Sale; Colliery district, Notts; returns £500; price one year's net profit; owner (70) retiring; scope to easily double; no heavy trade; no N.H.I., easily added; several good pro's in increasing demand; one leaves a net profit of £30 per annum, and increasing; to one able to add Dentistry a fortune; very good house, rent £36; bathroom (h. and c.), etc. Apply 271/18, Office of this Paper.

SCOTLAND, WEST (Town).—Modern-fitted, unopposed, established, mixed Retail and Dispensing, and high-class tobaccos; profitable, and can largely increase; drawings about £1,500; suit qualified or unqualified. Particulars, 273/30, Office of this Paper.

SURBITON.—Chemist's Business; in one family 50 years; to let through war; no goodwill; fine roomy house with garden, or as a lock-up shop; success certain; would suit qualified lady. Apply Jones, 9 Surbiton Park Terrace, Kingston.

YORKSHIRE.—Old-established high-class Retail and Dispensing business in country town for immediate disposal, owing to ill-health of proprietor. Particulars on application to 274/37, Office of this Paper.

DRUG Stores under unqualified management; returns £20 weekly; lock-up shop; rent 10s. weekly; London, S.E.; stock and fixtures, £150 to £200. Stamped addressed envelope for further particulars to 277/28, Office of this Paper.

FOR Sale, by private treaty, a good-class Chemist's Business in a busy seaside town. Particulars, in the first instance, from J. E. French, Hon. Sec. of the Kent Pharmaceutical Association, Sittingbourne.

GOOD-CLASS London suburb; present returns about £1,400; good prices; good stock; satisfactory lease; established over 30 years; steadily increasing; anyone with about £600 at command may obtain a sound reliable business; references must be given before particulars are furnished. Apply 269/13, Office of this Paper.

AGENCIES.

ADVERTISER, having offices in London and good connection among Druggists, Wholesale and Retail, in the provinces, wishes to negotiate for the buying agency of a good selling article. Reply, in confidence, to 168/59, Office of this Paper.

ADVERTISER, after honourable discharge from Army after forty months' service, desires to take up Agencies in Canada, United States, etc., for first-class British Chemical, Drug, Druggists' Sundry and Perfumery houses; twenty years' experience of the trade at home and abroad. Address 276/7, Office of this Paper.

AGENTS wanted in principal towns for Lysol, Packet Dyes, Soft Soap, Soap Powder and Cleaning Preparation, etc.; liberal commission. Box 76, Osborne-Peacock Co. Ltd., 82 Gordon Street, Glasgow.

BILIMORIA & CO., 121 Dhobitalao, Bombay, 2 (India), with established offices and with exceedingly good connections all over India, are open to accept further Sole Agencies; manufacturers of Patent and Proprietary articles, Chemicals, Drugs, and Galenicals cannot obtain better representation in India than that now offered; correspondence invited. Reference, National Bank of India, Ltd.

SUGAR SUBSTITUTE.—Agents wanted; London and suburbs, Southern Counties, Wales, Western Counties, Channel Islands. Sweetleaf, 104 High Holborn, W.C. 1.

THE ANGLO-FRENCH DRUG CO., LTD., desire to inform the trade that they have opened a Branch in Paris with large Stock Rooms. They are therefore now in the position to offer their unique experience in introducing British goods and Specialties into France, and would be pleased to receive proposals as to sole Agencies. The Company would also act as buyers in France for British and Colonial firms on a small commission basis. Proposals, etc., which will be treated confidentially, to be sent to the Head Office, Gamage Buildings, Holborn, London, E.C. 1.

TRAVELLER of good address, calling upon Chemists (Midlands and the North), desires additional Agencies in useful sundries. Replies to "Enterprise" (245/10), Office of this Paper.

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1.—SOUTH COAST.—First-class Retail and Dispensing Business; in same hands many years; retiring; returns about £900; commanding position; plenty of scope in energetic hands; attractive Pharmacy; well stocked; price simply valuation; no goodwill.

2.—OXON (Death Vacancy).—Old-established good-class country Business in centre of large agricultural district; quite unopposed; returns £1,350; net profit £367; good house and garden; well stocked shop; price about £900.

3.—NORFOLK.—Unopposed mixed village Retail; returns about £1,150; run as a Drug Store; large house; rent only £20; fully stocked; price £300; illness sole cause of sale; suit unqualified or qualified.

4.—LANCS.—Sound Cash Retail, within three miles of Bury; present returns about £1,000; no panel; wine licence; very low rent; same hands many years; population 7,000; good chance for smart man; price £400.

5.—LONDON SUBURB, N.E.—Sound progressive cash Drug Stores in fine main road position; returns nearly £40 a week; no panel; excellent profits; convenient house and premises; well stocked; owner called up; price for quick sale £800; qualified man would soon increase takings to £2,500.

6.—LONDON, S.W.—Good-class Retail and Dispensing Business, in fine position, close to busy station; returns £1,000; no panel; clear net profit over £500; books properly kept; scope for increase, owner retiring; price £450; part could remain; strongly recommended.

7.—LONDON, W.C.—Profitable Cash Retail, increasing; returns, under Manager, £1,050; net profit £300; low rent; good position and well stocked; price £450.

8.—LONDON SUBURB, S.E.—Well-established Cash Retail; very profitable, and scope for increase; returns £540 under Manager; net profit £250; price £300, about value of stock and fixtures.

STOCKTAKINGS.

We are now booking dates for October, and appointments should be made early to avoid dates clashing. Terms sent on application. 45 years' practical experience.

PRIZE COURT SALE.

IN PRIZE.

BY ORDER AND FOR ACCOUNT OF THE MARSHAL OF THE ADMIRALTY.

WE are instructed to SELL the undermentioned GOODS subject to the usual Government restrictions as to Export. We shall be pleased to receive OFFERS at our address not later than noon on Monday, 16th September, 1918.

Ex S.S. SEGOVIA (per FACTO), lying at Hull.
Four Casks (about 2 tons) EDIBLE OLIVE OIL.

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FOR SALE.

CHEMIST'S FITTINGS.—Dispensing Counter and Screen, 6 ft.; Counter fronted with glass cases, 7½ ft.; two 10-ft. Wall Fittings comprising 68 drawers, lockers, cupboards, shelving, and cornice; 6 ft. Bent-glass Counter Case; 9 ft. Ebonyed Window Enclosure, plate-glass shelves and mirrors. Clarke, 19 Pear Tree Road, Derby.

FOR Sale, 7 Lawn Sieves, nearly new, 10" diameter; any reasonable offer accepted. Can be inspected at Lewis, Berger & Sons, Ltd., Hemerton.

FOR Sale, massive Showcase (10 ft. high by 9 ft. broad by 2 ft. deep), 10 shelves, real solid mahogany, cost £96 pre-war, sacrifice £50; also 400 Shop Rounds, 40, 20, 10 oz. white, gold labels (good condition); also 20 Blue, 10 Pink, 4-lb. Jars, Dome tops. What offers? James, 13 Crownhill Road, Harlesden, N.W. 10.

FOR Sale, 10, 20, and 30 oz. Shop Rounds, Ointment and Pill Jars, Blue and White Counter and Dispensing Scales, four Carboys, and a few fittings; also good medium-size Hobbs' Safe; to clear or sell as going concern. Seen at 2 Chichester Street, Paddington, W. 2.

BUSINESSES WANTED.

BRISTOL OR WITHIN EAST DISTANCE.—Wanted, a Business; returns about £800-£1,800. Replies, in confidence, to "M.P.S." (275/17), Office of this Paper.

SITUATIONS OPEN.**RETAIL.**

BARNSELEY.—Assistant, lady or gentleman (rejected, Grade 3, or discharged), qualification not essential, for brisk Retail and Dispensing (chiefly N.H.I.); middle-class business; outdoors; hours 9-8, Thursday 1, no Sunday duty; previous Retail experience essential; liberal salary to suitable person. Kindly state full particulars as to age, experience, etc., Nash, 2 Queen Street, Barnsley.

BLACKPOOL.—Assistant, unqualified or Apothecaries' Hall, lady or gentleman (rejected, Grade III, or discharged), for Dispensing; outdoors; high-class business. State age, experience, references, and salary required, to Richardson & Co., Central Beach, Blackpool.

BRISTOL.—Spracketts, Shipping and Retail Chemists, Tramways Centre, have a vacancy for a smart unqualified Assistant; easy hours; partly outdoors; no Sunday duty; necessary occupation; good salary and prospects for suitable man. Apply, giving full particulars as to salary, etc., and enclose photo.

CAMBRIDGE.—Lady Assistant (Hall) required for good-class Dispensing business. State salary, etc., S. F. Barker, 46 Chesterton Road, Cambridge.

EASTBOURNE.—Wanted, experienced Assistant, outdoors, ineligible, competent, to take charge; hours 9 to 7. Apply personally or by letter, giving full particulars, to Gould & Co., Victoria Pharmacy.

HAMPSHIRE.—Wanted, unqualified Assistant, any age, lady or gentleman, for a good-class Dispensing business in beautiful part of Hampshire, near military camp; good experience essential; permanency; salary £130 a year; outdoors; satisfactory references needed; cost of living moderate. Apply J. Keeble, Chemist, Liss, near Petersfield.

HINCKLEY.—Knight & Crofts, Pharmacists, require (at once) an experienced Senior Unqualified Assistant, lady or gentleman, for good-class Retail and Dispensing business. Also a Junior Assistant; lady or gentleman; good salaries given; three Assistants kept. State age, experience, salary required, and when disengaged.

HULL.—Wanted, Assistant (outdoors); used to good-class Retail and Dispensing business. Send full particulars, age, reference, and salary required, S. T. Kirton, Chemist, 53 Savile Street, Hull.

LIFORD.—Howards & Sons, Ltd., require an Entering Clerk (discharged or ineligible man) or a lady Clerk; experience necessary; permanent post.

LANCASHIRE.—Unqualified Assistant, rejected or Grade 3, for a large progressive business; must have had good Photographic and Counter experience; business situate in a healthy manufacturing town. Apply F. P. (274/35), Office of this Paper.

LIVERPOOL.—Wanted, capable Assistant, male, ineligible, for a brisk city business. Apply, stating age, height, salary, and references, John Bain, 4 Quadrant, Lime Street, Liverpool.

LONDON.—Wanted, qualified elderly man or disabled soldier, to assist in Dispensing for about 36 hours a week; dinner and tea provided. Apply "M. C." (277/35), Office of this Paper.

LONDON, S.E.—Qualified Chemist, lady or gentleman, as Manager; Dispensing department; capable and accurate. Apply, stating references, salary, etc., Chemist, 77 High Street, Croydon.

LONDON, S.W.—Experienced Assistant required; accurate Dispenser; good general knowledge of middle-class business; N.H.I.; outdoors. Apply Lloyd, St. John's Hill, Clapham Junction.

LONDON, W.—Junior Assistant on September 30th (lady or gentleman); outdoors; hours 8.30 to 7. Reply, stating usual particulars, to "M." (168/15), Office of this Paper.

LONDON, W.—Required, in high-class Dispensing business, a qualified Senior, married, to reside on premises and take charge in absence of principal; good Dispensing experience necessary. All particulars in strict confidence to 277/26, Office of this Paper.

MANCHESTER (Near).—Wanted, unqualified Junior Assistant for Dispensing and Counter; National Insurance. Full particulars, with salary required, J. Braddock, Chemist, Hadfield.

MANCHESTER.—Lady Pharmacist and two unqualified lady Assistants required; comfortable berth. Please apply with full particulars, so as to save time, to C. H. Griffiths, Ltd., Chemists, Droylsden.

MANCHESTER.—A lady Assistant, with good practical experience, required for the Dispensing department of a high-class business. State age, experience, and salary expected, 274/39, Office of this Paper.

SHROPSHIRE.—Unqualified Assistant, discharged or ineligible, for good-class Retail business; must be competent and reliable Dispenser; outdoors; easy hours; no Sunday duty. State full particulars and salary required, Bates & Hunt, Wellington, Salop.

SOUTH KENSINGTON.—Assistant with Army discharge, good organiser and bookkeeper, wanted. Apply, with references as to experience, and stating salary required (permanency), to "Chemists" (278/3), Office of this Paper.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH SHIELDS.—Wanted, qualified Assistant (ineligible) for Manufacturing and Dispensing, with good knowledge of Counter trade. Full particulars as to salary, with references, to Mason & Co., Ltd., Store Chemists, 80 King Street, South Shields.

SOUTHAMPTON.—Junior Assistant required for a Light Retail business in a pleasant suburb; reasonable hours; time for study; outdoors. Apply, stating experience and salary required, to P. G. Eley, Shirley Road, Southampton.

SOUTHSEA.—Lady Assistant required, chiefly for Dispensing, with full qualification or other experience; outdoors. Apply, giving usual particulars and salary required, etc., Arnold & Sons, Southsea Pharmacy.

STOCKPORT DISTRICT.—Qualified Manager required for Cash Retail and Dispensing business, with N.H.I. work. Address, stating full particulars as to references, salary, when disengaged, etc., and enclosing photo (to be returned), to T. Woodruff, Pharmaceutical Chemist, 83 High Street, Cheadle, Manchester.

WEST RIDING.—Young lady Assistant required for Light Retail and Dispensing business; comfortable permanency. State age, Dispensing experience, and when at liberty, "W. R." (274/351), Office of this Paper.

WEYBRIDGE.—Lady Dispenser required (outdoors); good-class business. Full particulars, experience, salary, etc., to Amos & Ashworth, Church Street.

WORTHING.—Lady Assistant wanted, with Dispensing experience; outdoors; good-class business. Send particulars, with reference, to W. Aston, Pharmaceutical Chemist, Worthing.

WREXHAM.—Francis & Co., Chemists, have a vacancy for unqualified Assistant; discharged preferred; outdoors; short hours; good-class business.

ASSISTANT, junior, of gentlemanly appearance and address, required (at once) for good-class Retail and Dispensing business; quick Counter trade; must be a good Window-dresser and abstainer. Full particulars, salary required, etc., and photo in first letter, to Hay & Co, Chemists, Gosforth-on-Tyne.

ASSISTANT wanted in busy Retail; qualified or unqualified; easy hours; outdoors; good and progressive salary. Usual particulars to Smallman, 228 Soho Road, Birmingham.

ASSISTANT wanted for end of September; "exempt"; permanency. Pope, Roach & Son, 71 St. James's Street, S.W.

ASSISTANT for brisk Retail and Dispensing business; good salary and prospects to a suitable man. Packer, Seaford, Sussex.

ASSISTANT wanted (temporarily); outdoors; good Dispensing experience essential. Apply, with full particulars, stating salary required, to J. G. Gould & Co., 23 North Audley Street, W. 1.

ASSISTANT for Thursday evenings; 7-9; manage alone. Apply H. E. Matthews, Ltd., 66 Kennington Park Road, S.E. 11.

ASSISTANT; unqualified; outdoors; either sex. State salary required, Farrants, Chemist, Orpington.

CAPABLE Assistant required for the Dispensing Counter; reasonable hours; S.W. district. Apply 277/23, Office of this Paper.

DISPENSER wanted; experienced in high-class Dispensing; no N.H.I.; outdoors; hours of business 8.30 to 6. Mr. Lewis, Chemist, Ealing, W. 5.

DISPENSER (qualified); thoroughly experienced man required; outdoors; permanency; Wednesdays till 1. Write, giving fullest details of previous experience, references, and salary required, to Mr. J. R. Craig, Chemistry Department, 17 and 19 Union Street, Aldershot.

DISPENSER-BOOKKEEPER (lady) wanted by Doctor; to live in; previous experience unnecessary; salary £4 per month. Apply by letter to Dr. J. A. Butler, 269 Goldhawk Road, London, W. 12.

ELDERLY qualified for branch shop; easy hours. State salary, Richards, Chemist, Duddenhill Lane, Willesden.

EVENING Assistant, qualified, near Hammersmith, for Cash Retail and N.H.I. Apply, stating evenings available and salary, to include Saturday (closed Thursday), to 276/33, Office of this Paper.

GOOD OPPORTUNITY.—I require assistance (at once); gentleman preferred; lady with Retail experience entertained; every consideration given to suitable person; two Assistants kept; liberal salary and good prospects. J. Wearing, Pharmacist, Woking, 'Phone No. 164.

GOOD opening for a young qualified man; single; either rejected, discharged, or Grade 3; permanent and lucrative post. "H. L." (274/352), Office of this Paper.

GOOD reliable Assistant wanted (at once); ineligible. State salary (outdoors), Davies Bros., Chemists, Porth.

GUY'S HOSPITAL.—A sixth Dispenser required; Minor qualifications essential; salary £150 per annum. Apply to the Acting Pharmacist.

JUST AS WELL TO BE FRANK!—We require, and can satisfy, an exempted or ineligible man who seeks a good post and is worth his salt; young if possible, and capable of staying the course; "Body's" Pharmacies, Southend and Westcliff. Write Body, "Penkivel," Rayleigh, Essex.

LADY Dispenser-Bookkeeper wanted (immediately). Write, giving references and stating salary required, to Drs. G. Nyssen and Aylen, Halesworth, Suffolk.

LADY Dispenser required (Hall qualification) for good-class business. State salary and usual particulars to H. Hocken, 33 Station Road, Redhill, Surrey.

LADY Junior Assistant required for first-class Dispensing and Retail business; outdoors; other ladies employed; reasonable hours. Write, giving full particulars, to G. Peck & Son, Pharmaceutical Chemists, Cambridge.

LADY Assistant wanted for Dispensing, Stock, and Counter; hours 9-7, Saturdays 8, Thursdays 1 o'clock. Apply, with full particulars as to experience, etc., Walter Marchant, High Town, Hereford.

LADY (Minor) required for N.H.I. and Retail; London district; good salary offered. Apply 277/34, Office of this Paper.

LOCUM.—Qualified required (early). State salary required and full particulars, in first letter, to "Devon" (168/33), Office of this Paper.

MANAGER required for old-established City Retail business; only men qualified to take sole charge need apply. Apply 153/3, Office of this Paper.

MANAGER wanted; qualified or unqualified; outdoors; ineligible; knowledge of Photography and Optics a recommendation; salary up to £5, according to ability; no Sunday or evening duties. Apply E. R. Dixon, Chemist and Optician, Lincoln.

MANAGER for small branch in seaside village; easy berth; salary and liberal commission on increased turnover; suit young man anxious to get on, or older man seeking easy berth; quiet but steady application required. State full particulars and salary desired, in first letter, 277/13, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

METROPOLITAN HOSPITAL, KINGSLAND ROAD, E. 8.—Applications are invited for the post of Assistant at a special Tuberculosis Department of a qualified lady Dispenser, who will be required also to act as Clerk to the Medical Officer; proficiency in typewriting and shorthand will be a strong recommendation. Applications (by letter only, in own handwriting), with copies of testimonials and salary required, should be addressed to the undersigned, J. Courtney Buchanan, Secretary and House Governor.

OVER military age; as Assistant; qualified. E. S. Giles, Ltd., Great Homer Street, Liverpool.

QUALIFIED Manager, £4 per week, for Light Retail branch; no Sunday duty, one full day holiday per week. Also qualified Dispenser for evenings. Apply 273/3, Office of this Paper.

QUALIFIED Chemist; efficiency paid for; Salesman and disciplinarian; salary and commission guaranteed, £275. Apply by letter in first instance, making personal appointment, to W. Bannison, Pharmaceutical Chemist, 2 Shawfield Street, Chelsea.

QUALIFIED Manager, with view to succession; £100 cash and balance by instalments; an excellent opportunity of acquiring on easy terms a good-class business in a good neighbourhood, with good house accommodation. Apply F. J. Sproston, 118 Rodenhurst Road, Clapham Park, S.W. 4.

QUALIFIED Manager; exempt; one invalided out of the Army not objected to; plenty of help given. Apply Mrs. G. F. Forster, Castle Street, Dover.

QUALIFIED Assistant wanted for Agricultural business; ineligible or discharged soldier. Burrows, Gainsborough.

QUALIFIED Assistant (lady or gentleman) for Dispensing; no N.H.I. Apply 277/24, Office of this Paper.

RELIEF Dispenser (woman); three days a week and alternate Sundays; Doctor's Surgery; East London; hours 9-11.30, 2-5, 6-9; salary 12s. daily. Apply, stating experience, qualifications, etc., to Box 268/20, Office of this Paper.

REQUIRED, for end of September, a fully-qualified Assistant; lady or gentleman; discharged or over military age. Apply with full particulars, stating salary, etc., to Longman, Chemist, Littlehampton.

SURGICAL INSTRUMENT BUSINESS.—Assistant for Shop Counter; state age, other duties accustomed to, and wages expected. Reply "Surgical," Lee & Nightingale, Liverpool.

THOROUGHLY competent man required as Dispenser (relief) every evening 5-8; S.W. district. Apply 277/230, Office of this Paper.

UNQUALIFIED Assistant, with good experience in the Retail, required for the Stocktakers' department of a large firm of Chemists (Retail); single man preferred; permanency, with excellent prospects. Apply 274/350, Office of this Paper.

WANTED (immediately), Assistant; male or female; outdoors; unqualified; ineligible or of low category. Apply, stating age, experience, and salary expected (no Sunday duty), to Baker's, Chemist, Shields Road, Newcastle-on-Tyne.

WANTED, a capable Assistant, ineligible for Army, for Cash Retail and Dispensing business. Apply, giving references, and state age and salary required (indoors), to R. W. Houfe, Pharmaceutical Chemist, Windsor.

WANTED (at once), Dispenser; clean, accurate, and quick, and also to help at the Counter; hours easy, and no Sunday duty. Apply Manager, 31 High Street, Chelmsford.

WANTED, qualified Manager for good-class suburban business; good Counterman and Prescriber; permanent berth; no N.H.I. Apply, stating salary and age, Northwood, 246 Lewisham High Road, London, S.E.

WANTED (at once), Locum Tenens to take charge of branch. Apply, with full particulars, to George & Welch, Pharmaceutical Chemists, Worcester.

WANTED by the Gilfach Goch Medical Scheme, lady Dispenser. Apply, giving particulars, to Secretary, Brynteg, Gilfach Goch, Glam.

WANTED (immediately), qualified Manager; liberal salary and commission to suitable man; Manchester district. Apply 255/31, Office of this Paper.

WANTED, Locum for about fortnight in September; outdoors; single-handed. State references (recent), age, terms, and all particulars in first letter, Neale, Mortimer Street, Ferne Bay.

WANTED, Assistant; male or female; outdoors; unqualified; ineligible or of low category. Apply, stating age, experience, and salary expected (no Sunday duty), to Cooper, Pharmacist, Failsforth.

WANTED (immediately), unqualified Assistant; lady or gentleman; discharged soldier or one exempted if gentleman. Apply Barkers, Chemists, Grimsby.

WANTED, a Junior Assistant; either in- or out-doors, with previous experience. Apply to W. F. Pasmore, 320 Regent Street, London, W. 1.

WANTED, temporary assistance, four to five weeks; October-November: Light Retail and Dispensing. Scott, Pharmaceutical Chemist, Ilfracombe.

WANTED, Junior or Improver, either sex, to assist in two country Light Retail businesses; please state salary required and references; knowledge of Optics and Dentistry an advantage, but not essential. Greensmith, Chemist, Soham.

90S. per week and substantial commission on profit.—Wanted, for the South Coast, qualified Manager for high-class Pharmacy; short hours, no Sunday duty; must be smart business man of good appearance and address; able to control staff and good Stockkeeper; state medical category, experience, height, age, and when disengaged; all applications treated in confidence. "Qualified" (15/15), Office of this Paper.

WHOLESALE.

LONDON house requires Laboratory Assistants (male) for manufacture of Galenical preparations. Replies, stating age, previous engagements, and wages, to "Laboratory" (169/230), Office of this Paper.

ASSISTANT (ineligible or discharged soldier) for fine Chemical Counter. Apply by letter, stating experience, salary required, to J. F. Macfarlan & Co., 9 Moor Lane.

DRY Counter Hand wanted; must be experienced. Apply, stating full particulars, to Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

EXPERIENCED Assistant (ineligible) wanted for supervision work in Wholesale department. State age, experience, references, and salary, Reade Brothers, Ltd., Wolverhampton.

GENTLEMAN wanted with a wide knowledge of the manufacture of Toilet articles, particularly Face Creams. Write full particulars to 169/55, Office of this Paper.

INVOICE Clerk; experienced; state age, qualifications, when disengaged, and salary required. Apply the Managing Director, the Standard Tablet Co., Ltd., Hove.

LABORATORY.—Assistants wanted for Chemical and Pharmaceutical work; must have had some Chemical and good Pharmaceutical experience; ineligible; unqualified; salary £100 per annum. Apply Box No. 627, Smith's Advertising Agency, Ltd., 100 Fleet Street, E.C. 4.

LADY Chemist, qualified, with good organising ability and capacity, to control a staff of girl workers, to supervise the Pharmaceutical packed goods department of a firm of Manufacturing Chemists on the South Coast; preference given to applicant who has had both good-class Retail as well as Wholesale experience; the post offers excellent prospects of advancement. Apply, stating age, experience, salary required, and other particulars, to 161/6, Office of this Paper.

PACKERS wanted for bottled and tin goods. Apply, giving references and wages required, to "Sanitas" Co., Ltd., Locksley Street, E. 14.

REPRESENTATIVES wanted, with good connection amongst Retail Chemists, to sell a good repeater; remunerative commission (£10-£12 per week); only those able to sell on pro forma terms need apply. Applications, in confidence, to 271/26, Office of this Paper.

REPRESENTATIVES on commission wanted for various areas in England calling on Chemists and Druggists, to carry attractive side lines; would suit lady travellers requiring a side line. Usual particulars of ground covered, with references, to Maurice Smith & Co., Manufacturing Chemists, Kidderminster.

REQUIRED, young lady with some knowledge buying for Wholesale Chemist. State qualifications and salary required, 278/38, Office of this Paper.

SALESWOMAN (indoors) wanted by large Wholesale house; must thoroughly understand the trade; high-class Retail experience an advantage. Apply "M. S." (169/36), Office of this Paper.

STOCKKEEPER required (at once); good wages to a competent man; must have had previous experience in similar work; hours 8.30 a.m. to 6.30 p.m., Saturdays 1 o'clock. Apply Staff Office, Selfridge's, London, W. 1.

TABLET Maker and Granulator required by London Manufacturing Chemists. State age, salary, experience, etc., to 169/13, Office of this Paper.

TABLET Maker or Granulator wanted; Liverpool; permanent post; good salary. Apply 137/18, Office of this Paper.

TRAVELLER on commission required, to carry Proprietary throughout Ireland, calling on Chemists and Stores. State experience, with references, to 268/26, Office of this Paper.

TWO young women for fine Chemical Counter; must have had experience in packing similar goods. Apply by letter, stating experience, wage required, to J. F. Macfarlan & Co., 9 Moor Lane.

UNQUALIFIED; chiefly for Stock and Warehouse; 8.30 to 8, 1 o'clock Thursdays, Saturdays 9 p.m.; Store trade; several kept; London W. district. Full particulars to "Aspirin" (273/30), Office of this Paper.

WANTED, two Assistants for Wholesale Manufacturing Chemists, and two for Patent Medicine Stock Rooms. When applying, please state age, experience, and salary required, 271/20, Office of this Paper.

WANTED, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

WET and Dry Counter men required by a London Wholesale house. Apply by letter, stating age, military exemption, previous experience, and salary required, to "Cascara" (169/23), Office of this Paper.

WORKS Chemist wanted; urgent munitions work; permanent position; will be taught special work; some acquaintance with rubber working desirable. Apply, stating salary wanted, to 167/70, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

FLORENCE, ITALY.—Experienced, qualified lady Pharmacist required for Dispensing; must be neat and orderly; preference given to one able and willing to help in Counter work if necessary; previous continental experience not essential; travelling expenses paid. State salary expected and enclose photo. H. Roberts & Co., British and Foreign Chemists, Florence.

JAPAN.—Wanted immediately, an Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; must be ineligible for the Army. Send for full particulars, with photo, to J. W. Franklin, 28 Allyn Road, London, S.E. 21.

PARIS.—Competent Dispenser; qualified preferred; male or female; outdoors; no Sunday duty. Write, giving particulars of age, experience and salary required, and enclose photo if possible, Roberts & Co., 5 Rue de la Paix, Paris.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A QUALIFIED Manager seeks change on account of wife's health; North-West Coast resort preferred; Chemist or Company; age 35; Grade 3; good experience; first-class Salesman; excellent references; would act as managing partner with view to succession if required. Full particulars in first instance to "Vim" (277/10), Office of this Paper.

AN experienced Retail Chemist; good Counter hand and Dispenser; willing to take duty every day except Mondays and Thursdays; for September only. Apply 273/25, Office of this Paper.

AS Manager or Senior; qualified; middle-aged; locum or permanency; disengaged September 14th; middle-class trade preferred; fully experienced. Apply 277/4, Office of this Paper.

AS ASSISTANT OR MANAGER.—Advertiser desires first-class position; thoroughly experienced, keen Buyer, good Salesman; excellent references; unqualified; liberal salary and commission essential. Apply 276/16, Office of this Paper.

AS Locum Manager or Supervisor; capable; good Salesman; sound, lengthy, all-round experience; qualified; trustworthy; Lincolnshire preferred, but not essential; country not objected to. Address full particulars, with best offer, "Chemicus," Wharton, Brook, Brigg.

ASSISTANT; unqualified; permanency; City or West-End. Apply 277/7, Office of this Paper.

ASSISTANT; 24; good-class experience Dispensing, Counter, and Photography. State salary offered and hours, at liberty October, permanency, to "Provincial" (277/9), Office of this Paper.

BACHELOR requires situation as Dispenser and Bookkeeper; aged 56 years; thoroughly experienced, and can offer excellent references. Reply, stating terms, 167/53, Office of this Paper.

BRISTOL.—Gentleman requires evening Dispensing; 18 years' experience; Hall and N.H.I. qualification. Apply 276/13, Office of this Paper.

CHEMIST wishes to place daughter, 16, well educated, in Retail for 12 months, to get business experience; Peckham district. Apply 274/32, Office of this Paper.

DISENGAGED October 1st; age 51; height 6 ft.; Major; locum; managership; no N.H.I. Apply 275/11, Office of this Paper.

DISENGAGED shortly; locum, permanency; excellent experience and references; age 47. Apply 276/20, Office of this Paper.

DISPENSER (Hall), good experience, desires part-time post; free three days a week, and every evening; disengaged end of month; no Counter. Miss Fellowes, 16 Corringway, Golder's Green, N.W. 4.

DISPENSER, lady (Hall), seeks post with Doctor; out of London preferred. Apply 277/29, Office of this Paper.

DISPENSER, with Hospital and Medical training, seeks situation with Medical gentleman; temporary or permanent duty; moderate salary. Apply 277/25, Office of this Paper.

DISPENSER (Apothecaries' Hall), good experience, requires post with Doctor or Hospital in London; time for study. Miss Curran, 55 Chancery Lane.

ELDERLY qualified; good experience; active, healthy. Hyne, 41 Bell Street, Henley-on-Thames.

EXPERIENCED Dispenser (lady), Hall Certificate, requires post; West London preferred; whole or part time; Doctor, Chemist, or Institution. Apply 272/36, Office of this Paper.

GENTLEMAN, over military age, retired, offers services to Scottish Chemists and Doctors; £5 weekly. Apply 269/18, Office of this Paper.

INELIGIBLE; unqualified; married; 31; first-class experience; short hours; excellent references; disengaged. Apply 275/16, Office of this Paper.

LADY (Minor) desires post in good Retail business; Manchester or district preferred. State salary and hours, 272/37, Office of this Paper.

LADY Dispenser, Hall, three years' experience, desires permanent post; Doctor preferred. "Materia" (275/6), Office of this Paper.

LADY Dispenser, with good Dispensing experience, shortly disengaged; Apothecaries' certificate; comfortable hours. Dispenser, 14 Leaside Crescent, Golder's Green, N.W. 4.

LADY Dispenser (Hall) requires post; North London; short experience with Doctor, and as Locum in Hospital. Apply 277/11, Office of this Paper.

LANCS.—Locum, ten days from 10th inst.; qualified. Apply 276/31, Office of this Paper.

LOCUM Dispenser; Hall; experienced; Doctor preferred. Miss Saul, 129 High Street, Brentwood, Essex

LOCUM; qualified; week only during September. "Miraflores," 27 Northanger Road, S.W. 16.

LOCUM; qualified; experienced; disengaged. A. Hogg (277/15), Office of this Paper

LOCUM or Manager; qualified; age 56; disengaged September 23rd; abstainer; excellent references and experience; good Prescriber. Please write fully, 276/25, Office of this Paper.

LOCUM OR RELIEF.—Gentleman, with highest references and thoroughly capable, is open for engagement in London; single days or evenings. Apply 276/120, Office of this Paper.

LONDON.—Young gentleman (22), unqualified, Grade 3, six years' Counter experience, seeks position with good-class Chemist; Ilford district preferred. Smith, 82 Courtland Avenue, Cranbrook Park, Ilford.

MANAGERSHIP required by thoroughly up-to-date Pharmacist, whose capabilities and experience in every branch can be rivalled by none; Grade II.; married; South-West England preferred. State highest salary, etc., "Permanency" (277/39), Office of this Paper.

MANAGER, qualified, active, exempt, terminating a four years' service, is open for engagement. Terms and particulars to 275/15, Office of this Paper.

MANAGER, with 20 years' best London experience, desires similar position; City or West-End preferred; thoroughly experienced, and accustomed to sole control; salary £5 5s.; age 46 (ineligible); tall and active; good appearance; best references; replies treated confidentially. "Saffron" (274/36), Office of this Paper.

MANAGER; London; qualified; 51; good-class business; many years' successful London management; keen buyer. Apply 273/24, Office of this Paper.

MANAGER; 49; exempt; energetic, experienced, reliable; permanency; London preferred; with or without view easy succession; unregistered. Address "Energy" (276/15), Office of this Paper.

MANAGEMENT of Drug Store by competent man, or would purchase one neglected in London district; cash ready; unqualified. 90a. Pearcroft Road, Leytonstone, E. 11.

MANAGERSHIP; Pharmacist; experienced all branches; thorough organiser, keen buyer, excellent Salesman and Prescriber; highest references; £300 yearly; Grade II. State full particulars, "Married" (277/390), Office of this Paper.

PART-TIME; Minor qualification; two or three days weekly; male. "Pharmacist" (278/36), Office of this Paper.

PHARMACIST, over military age, active, retiring from Retail, offers services for permanent control; expert experience with Proprietary, Surgical, or usual side lines; thirty years' successful business career; excellent references. "A. D." (275/27), Office of this Paper.

QUALIFIED, 29, with first-class West-End experience Retail and Dispensing, is open for part-time engagement. Mr. S. W., 47 Molyneux Street, Marble Arch, W.

QUALIFIED seeks management; 14 years' premier position; references; success assured; age 44; married. "Oleo" (271/19), Office of this Paper.

QUALIFIED, elderly, recently sold business, as Manager; South Wales or South-West England; early succession or share entertained; personal interview desired. "Laborare" (275/14), Office of this Paper.

QUALIFIED; 30; Grade III.; management, view early succession; Midlands. Apply 275/3, Office of this Paper.

QUALIFIED Locum; M.P.S.; exempt; disengaged September 17th-October 2nd; excellent Dispensing experience. Apply 274/27, Office of this Paper.

QUALIFIED Pharmacist desires position as Manager in good-class business for winter months, in healthy locality; thoroughly experienced and reliable. Full particulars and terms, "Aspirin," 42 High Street, Oxford.

QUALIFIED, 42, Grade 3, as Locum Manager or Assistant. "Pharmacist" (275/40), Office of this Paper.

QUALIFIED, 56, desires engagement for a few hours daily; London. Apply 277/40, Office of this Paper. (Will advertiser kindly send his name and address to "The Chemist and Druggist" Office, 42 Cannon Street, E.C.)

RELIABLE Dispenser and Surgery Attendant, 30, disengaged July 8th, requires locum or permanency with Doctor, or Institution; last situation, one year management of Drug Store, five years with Doctor. Write Mr. M. Biroh, 16 Melrose Gardens, Hammersmith, W. 6.

UNQUALIFIED, discharged, desires berth; married; live over premises. 2 Bradford Street, Chelmsford.

UNQUALIFIED Assistant; whole or part time; eighteen years' English and American experience with Chemists and Doctors. Address "Indian," 135 Camden Street, N.W. 1.

YOUNG lady seeks engagement as Counter Assistant in Retail Chemist, in or near Ilford; has knowledge of Drugs, and two years' Retail experience. N. C., 761 Garratt Lane, Tooting, S.W. 17.

WHOLESALE.

ADVERTISER (lady) is open to represent first-class house; London or provinces; experienced; excellent references. Apply 278/37, Office of this Paper.

ADVERTISER (ineligible) desires change; years experience in buying Drugs and Chemicals, and Hospital supplies for shipment to the Colonies; understands licences, etc. Apply 277/21, Office of this Paper.

ADVERTISER, 44, free from military service, desires progressive position, with scope for own initiative; Retail, Wholesale, Manufacturing experience; good organiser; used to control; good references. "Camphor" (278/1), Office of this Paper.

CHEMIST, 33, wishes to negotiate with view to a permanency in a good firm; for over four years Manager of the Drug and Chemical side of a well-known firm, with full control of Buying, Sales, Warehouse Staff, etc.; liberal salary, with attractive future prospects essential; no objection to Provinces or foreign parts at termination of war. Write Box 266/6, Office of this Paper.

LADY TRAVELLER.—Young lady, with experience, wants position as Traveller; West of England preferred. Apply "Energetic," c/o G.P.O., Cardiff.

REPRESENTATIVE, with 20 years' travelling experience and good record, requires good-class lines to offer on part expenses and commission basis. Apply 276/12, Office of this Paper.

RESPONSIBLE position required by late Director Manager (14 years); Proprietary Toilet preparations; sound organiser, administrator, and practical; age 44; ineligible. L. G. D., 34 Goring Road, New Southgate, N. 11.

WHOLESALE; any capacity; discharged officer; 39; experienced; active, capable; locum work entertained. Bradley, Godstone, Surrey.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

EGYPT.—Officer's young wife will undertake various war work in Cairo; requires very little remuneration; six years' experience with Chemist and Doctors; Apothecaries' Hall qualification; St. John nursing certificates; well recommended. Apply 277/8, Office of this Paper.

SOAP MAKERS.—Good Soap Boiler Assistant; well up in Milling and Plodding. Also clever Manufacturing Perfumer; wants situation in England or abroad; first-class references. Address Coryn, Poste Restante, Colbert, Marseilles, France.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—90 Allenbury "B" Prefs. 20s. 3d., 50 "C" Prefs. 20s.; 25 Champion & Slee Ordinary 18s. 10d., 25 Prefs. 17s.; 200 Day & Martin, 11s. 3d.; 100 Fields Ordinary, 9s. 10d.; 100 International Plasmion, 8s. 6d.; 330 Bovril Deferred, 13s. 10d.; 300 Schweppes Deferred, 9s. 6d.; 50 Borax Deferred, 41s. 6d.; 100 Lever "A" 6% Prefs., 21s. 3d.

Shares wanted (subject).—Camwal Prefs. and Debentures; Idris Debentures; Wright Layman Prefs.; 200 British Oil Cake Ordinary, 39s. 6d. x.d.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

A FIRM of Manufacturing Chemists want to buy large or small quantities of Tubes for Tooth Paste, Hongroise, etc.; Tins, Cardboard Boxes, Glass Bottles, and Jars; also Packing Cases. Full particulars to 277/36, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

GLUE.—Two tons powdered Glue, fine quality; three tons bright oblong Glue; 50 cwt. bright square Glue. Write for sample, etc. (stating quantity wanted), to "S. A. D.," c/o J. W. Vickers & Co., Ltd., 5 Nicholas Lane, E.C. 4.

70,000 ASPIRIN, 5 grs.; better than B.P.; 1,000 3s. 6d.; 5,000, 13s.; cash with order; larger quantities in proportion. Woolhouse, Chemist, Huddersfield.

100,000 $\frac{1}{2}$ gr. 330 Saccharine Tablets, guaranteed full strength, 18s. 6d. 1,000, 50,000 @ 19s., less @ 19s. 6d. 1,000; immediate delivery; cash with order; postage 1s. extra. Moore, Dept. A, 1 Roehampton Street, Victoria, S.W.

EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

BOOKS; Chemistry, Physics, Maths., Languages, History. Bowyer, 10 Marlborough Road, Dartford.

WHAT offer? Year Books of Pharmacy, 1880 to 1913 (except 1905), with general index, in one volume of 1886 to 1903. Apply 167/26, Office of this Paper.

DENTAL.

SEVEN Celluloid Full Upper Showpieces. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

1 OZ. Otto Rose. Offer wanted. Apply 275/21, Office of this Paper.

MISCELLANEOUS.

RUBBER Water Bed, new, 76 x 36. Hemmings, Chemist's Stock Buyer, 2 Scylla Road, Peckham, S.E.

DRAWERS.—Fine nest 60 Drawers; solid mahogany fronts, glass knobs (few missing); 9 ft. long, 4½ high, 10 in. wide; best offer over £6. Lane, Chemist, Weston Road, Hove.

BECKER'S Balance, brass pillar and supported beam, levelling screws, mahogany base, carry 250 grammes, box weights, 200 grammes to .001, brass; both practically new; 90s. Weston, 314 Worple Road, S.W. 19.

OAK Vats (2 100-gal. with lids, 1 50-gal.); Tincture Press, quart, 20s.; Copper Boiling Pan, on stand, 10 gal., fitted gas, 80s.; Semi-Rotary Pumps, No. 1 (iron), 60s., brass 80s., large (brass, on stand) 130s.; Roberts No. 1 Bottle Filling Machine, nearly new, £18; Hand Bottle Brushes, jam or pickle size, 9s. doz. Jackson, Pownall Square, Liverpool.

WANTED.

FUO wanted. Sharman, Northwood.

GOOD second-hand National Cash Register. Apply 169/29, Office of this Paper.

UROTROPIN (Merck) in any quantity. Address 170/38, Office of this Paper.

ACETIC Acid, pure, any strength; also Malt Vinegar. Thornton, Bladenavon, Mon.

SOAP Mill and Plodder wanted. State full particulars to 276/2, Office of this Paper.

ATOPHAN; one or two dozen boxes. State lowest price, 168/21, Office of this Paper.

BRASS Pestle and Mortar; old Blue Drug Pots. Bluck, 123 Lincoln Road, Peterborough.

VEEDEE Vibrator; fair condition. Lowest price, Donnelly, 284 Derby Street, Bolton.

B.W.'s Saxin Tabloids; any quantity. Weatherill, Chemist, Hither Green, S.E. 13.

THIOCOL Tabs. (5 gr.), stamped; Gentleman's Suit Case. MoMullan, Chemists, Larne.

GLACIAL Acetic Acid wanted. State quantity and price, Hirst, 81 Somers Road, Southsea.

BRANCH Practice Dental Chair, cheap; also B.P., 1898. Stone & Co., 16 Exchange Street, Norwich.

STILLS; thirty to one hundred gallons capacity. Price and particulars to 264/14, Office of this Paper.

GLYCERINE, Toilet Rolls, Vacuum Flasks, and Roll Films. State price. Hay & Co., Chemists, Gosforth-on-Tyne.

GLYCERINE, Toilet Rolls, Ammonol Tablets (unstamped) for Dispensing. Moorhouse, Pharmacist, Barnsley.

METAL Spray Mounts, any kind or condition; also Valves for Spray Balls. Apply 168/18, Office of this Paper.

PANOPEPTON wanted. State price and quantity to Walpole Drug Stores, 133 St. Mary's Street, Southampton.

OINTMENT MILL in good condition. Send details and price to Chemist, 13a St. Paul's Avenue, Willesden, N.W. 2.

TO buy, 1,000 or 2,000 gross No. 2 and No. 3 Screw-capped Tablet Bottles. Apply 148/53, Office of this Paper.

"AXIXATOR" apparatus for deafness; Extra Pharmacopoeia, Volume 2, 1912 edition. Newsholme, Ltd., Sheffield.

SUGAR of Milk (any quantity). State quality and price for cash against delivery, James, 13 Crownhill Road, Harlesden, N.W. 10.

COLLAPSIBLE Tube-filling Machines required for small tubes; any make; new or second-hand. W. Crawford, 19 Tibbottson Road, Ilford.

STARCH Powder in any quantity; Orange Wine, alcoholic or non-alcoholic. State price and quantities, Ellis, 10 Albert Road, Ilford.

COCOA Butter, Sweetened Milk, Cocoa, Sugar of Milk (any quantities). James, Chemists, 13-15 Crownhill Road, Harlesden, N.W. 10.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

WANTED (immediately), second-hand Mixing and Sifting Machine; capacity 100 to 600 lb. Edwards, Chemist, Fallowfield, Manchester.

SPECTACLE LENSES, Gold-filled Spectacle and Eyeglass Frames, in any quantity. Particulars and prices to Bishop & Vincent, 460 Holloway Road, N. 7.

COPIES of Schimmel & Co.'s Semi-Annual Report on Essential Oils, etc. Reply, stating dates of issue and price, to "G. W. M." (168/8), Office of this Paper.

INVALID Chemist requires one bottle of Sloan's Liniment and 1 lb. of Glycerine for his personal use; will a fellow-Chemist kindly oblige? Send price and I will remit. George J. Coombes, Chemist, Great Missenden.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

BIG prices paid for Stokes' or Colton Tablet Machines; Pill Machinery also wanted. Particulars to 78/58, Office of this Paper.

FOB line Tins wanted, suitable for Boot Polish, etc. We are also buyers of Tin Plates, printed or plain. "Brytenup" Polish Works, Marsh Lane, Preston.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce, 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
1 ounce, 1 1/2 ounce.
1 1/2 ounce, 2 ounce.
BLUE LOTION BOTTLES, all sizes.
CORKS, Superior Quality. No advance in price.
6 and 8 ounce ... 1s. per gross, in 6 gross bags.
Vials ... 10d. per gross, in 3 gross bags.
Delivered free within 7 miles, and to certain stations. Particulars on application.

L. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or ISLINGTON BOTTLE COMPANY,
New Inn Yard, Tottenham Court Road, London, W. 1.
Orders sent to either establishment have attention.
Established 100 Years.
Bottlers: London County and Westminster Bank, Bloomsbury Branch.

DIABETES

CHELTINE FOODS CO., CHELTENHAM.
FLOUR, BISCUITS, BREAD, FOOD, etc.
Highly Recommended by Medical Profession.
INFANTS' FOODS packed under Chemists' "OWN NAMES."
All particulars on request.

DISCRIMINATING PHARMACISTS

send their Developing, Printing & Enlarging to
Arthur J. C. LEWIS, The Chemists' Photographic Printers, New Barnet
when they consider quality, speed and price—
DO YOU ?
FULL LIST ON APPLICATION.

SACCHARIN TABLETS.

Absolutely Pure and Soluble.
Made from finest Monsanto (American) Saccharin.
In 1 lb. boxes containing 8,000, 15/6 per 1,000.
Prompt delivery by registered post. Cash with order. Attractive Window Bill enclosed.
WATSON & CO., Tablet Manufacturers, 8 ALBERT STREET, Loughborough.
Cheques to be crossed: London City & Midland Bank, Loughborough.

DAMANCY & CO., HARROW

SWEETENING TABLETS OF PURE SACCHARIN (Monsanto)
1 grain 330 in each tablet.
14/6 per 1,000; 14/- per 1,000 for 20,000; 13/6 per 1,000 for 100,000. Reduction for larger quantities. Cash with order. Carriage paid.

SACCHARIN TABLETS

1 grain 330 in 1. Made from finest Monsanto (American) 550 Saccharin, and guaranteed absolutely pure and soluble.
5,000 @ 21/6 per 1,000 | 25,000 @ 20/6 per 1,000
10,000 @ 21/- " | 100,000 @ 20/- "
Registered post paid. Immediate delivery. Cash with order.
J. AUSTIN, Chemist, Alum Rock Road, BIRMINGHAM.

WATSONS' OF SHEFFIELD

Give TWO-THIRDS Retail Price for No. 1 Junior Kodaks and No. 2 Folding Brownies and for many other cameras.

Three-quarters Retail Price for ROLL FILMS of all kinds.

Out-of-date films bought for experimental purposes.

If you have anything photographic, cameras, apparatus or supplies you cannot sell, send it to us now. It will never be worth so much to you again.

Ask your nearest chemist friend if he was satisfied with the price we paid him. He'll tell you.

All remittances immediately and all goods returned CARRIAGE PAID at once, if required.

This is what a leading Pharmacist says of our business.
"Gentlemen,— August 20th, 1918,
"I am obliged for your cheque in settlement of photographic goods recently sent you. I can only repeat my complete satisfaction with your methods, and although I do not expect an expression of opinion from a small business like mine is of any value, I hope you will refer to me if you have anyone in this district to whom such opinion would be of interest."

WATSONS', The Camera House,
Tel No. 27. 84 High Street, Sheffield.

WHAT OFFERS for

1 cwt. U.S.P. Sugar of Milk.	2 cwt. B.P. Sugar of Milk.
3 gross x 2 oz. Castor Oil (packed in 12 doz. cases).	
3 4 6	
1 cwt. Japanese "Beeswax."	84 lbs. Boracic Acid Crystals.
28 lbs. Amm. Bichromate.	
2 cwt. Hypo.	28 lbs. Pulv. Nucis Vom.

Or will exchange for Bicarbonate of Soda @ £14 per ton.
Apply 165/23, Office of this Paper.

GEE! HERE'S WHAT YOU WANT!

SHOWCARDS in High-class Clear & Forcible Styles
YOU TRY THESE — YOU'LL ORDER MORE.

2 16 x 10, for Coughs, Influenza, Health Salts, Shampoo Powders	for 5/9
Face Creams, Saccharin Tablets, &c., with HAND-DRAWN FIGURE SKETCH on each card	Carr. Paid.
3 12 x 9, for various "Preps." No sketch	for 4/9

SPECIAL LINES (Previous Adverts. cancelled). Carr. Paid.
F. MERTEN. 112 Warham Road, HARRINGAY, LONDON, N.4.
(Late F. M. & Co., of Holloway.)

TEA SWEETENERS. 'Aspanco' Brand

The Saccharin Tablet "par Excellence."
We were the original advertisers of this line twelve months ago, and have not changed our quality. We have hundreds of satisfied customers. Any quantity supplied. PRICES:
Less than 5,000, 16/3 per 1,000; 5,000 @ 16/-;
10,000 @ 15/6; 20,000 and upwards, 15/- per 1,000.
Registered Post Free. Cash with Order.
A. S. PRICE & CO., LTD., Blackheath, Birmingham.

"HOLMIER" BRAND

COMPOUND SACCHARIN TABLETS.
One is equal to a teaspoonful of sugar.
Made with American 550 Saccharin. @ 16/3 per 1000; 5,000 @ 16/-;
20,000 @ 15/6; 50,000 @ 15/- Net c.w.o. Immediate Delivery.
MEYER, Manufacturing Chemists, 98 COLMORE ROW, BIRMINGHAM.

SYMPHELITE SPIRIT

A PERFECT SUBSTITUTE FOR METHYLATED.

Retail Price - 2/6 per pint.

Satisfactory Wholesale Terms F.O.R., London or Shanklin. Owing to enormous demands, SAMPLES can only be sent on receipt of stamps 3d. to cover postage.

THE SYMPHELITE COMPANY - SHANKLIN.

SAXOMA SWEETENING TABLETS

Absolutely Pure and Guaranteed Harmless.

Retail at IN PACKETS Retail at IN BOXES

7½d. .. 5/9 doz., net. 1/11 .. 18 doz.

1/2 .. 11/- " " 2/6 .. 22/- "

1/7½ .. 15/- " " Less 2½ per cent.

BULK ORDERS—Less 2½ per cent.

2000 Tablets, 21/-; 4000, 20/-; 10,000, 18/- per 1 00.

Immediate Delivery. Terms—Cash with Order.

Banks—Parr's, Kingston Branch. Agents entertained.

SAXOMA, Fife House, Fife Road, KINGSTON-ON-THAMES.

UNCONTROLLED SACCHARIN TABLETS.

Immediate Delivery guaranteed from large stock.

½ grain 330 in 1; about 7,100 to the lb.—

1,000 @ 21/-, 5,000 @ 20/9, 1 lb. @ £7/4/0, 2 lbs. @ £7/3/0,

3 lbs. @ £7 2/0, 5 lbs. @ £7/0/6, 10 lbs. @ £6/19/0, 15 lbs. @ £6/17/6

½ grain 330 in 1—25 lbs. @ £6/16/0 Special quotations for quantities.

5,000 @ 14/9, 10,000 @ 14/6, 25,000 @ 14/3, 50,000 @ 14/-

100,000 @ 13/9, 250,000 @ 13/8, 500,000 @ 13/7, 1,000,000 @ 13/6

Pa. ket in boxes of 1,000, 2d. extra.

Superior qual. Finest Tabs. made. Reg. post free. Cash with order.

W. TRAVIS, 203 WHITECROSS STREET, LONDON, E.C.1.

Saccharin Tablets

½ gr. 330

1,000 @ 20/- per 1,000; 10,000 @ 19/6;

100,000 @ 19/-

QUEST, Chemist, Prestwich, Manchester.

SACCHARIN TABLETS

Highest quality and finish.

HALF STRENGTH (½ gr. 330 in 1) FULL STRENGTH (½ gr. 330 in 1)

16/- per 1000

21/6 per 1000

110/- per lb.

145/- per lb.

C.W.O.

POST FREE.

NO WAITING.

FRANCIS HALLAM, LTD., Rexall Pharmacy, Burton-on-Trent.

SACCHARIN TABLETS

Guaranteed absolutely pure and soluble.

½ grain 330 in 1 grain. Made from finest American 550 Saccharin.

10,000 lots at 16/6 per 1,000

Cash with order.

25,000 " 16/3 "

Immediate delivery.

100,000 " 16/- "

Registered post paid.

AUSTIN, Wholesale Chemist, Salfrey, Birmingham.

COTTON WOOL 2/2 per lb.

in 1 cwt. lots; 55 lb. at 2/2½. Carriage paid. Cash with order. Wrappers 3/6 extra, and are returnable. The wool is white, absorbent, and interleaved. Sample for stamp. Special price for bigger lots. Super quality at reasonable prices.

JAS. Q. MILLS, Chemist, Platt Bridge, WIGAN

SACCHARIN TABLETS

1 lb. ... £7 5 0 per lb.

2 lb. ... £7 4 6 "

5 lb. ... £7 4 0 "

Cash with Order. Immediate Delivery Guaranteed. Finest Tablets Made.

A. WALTON, 40 Washington Street, Bradford.



"WAVCURL" promotes Curly Hair.

An absolutely unique scientific toilet preparation. Harmless and effect ve. Sells at sight. Widely advertised and shows a splendid margin of profit on minimum protected price. Every Chemist who appreciates the value of quick returns and satisfied customers should stock "WAVCURL." Descriptive circular will be sent to all chemists on applying for it. Special to Wholesalers.

Packets, 1/6, at 9/- per doz. Bots., 2/9, at 21/- per doz.

THE NEW WAVCURL CO., Fulwood House, High Holborn, London, W.C.1

SEND US YOUR LABELS

CARTONS, WRAPPERS, ETC.,

to be imprinted with Customer's Name & Address.

GOOD WORK AT LOWEST RATES.

TURNER'S, 23 Rosebery Av., London, E.C.1

ESTABLISHED 1909

8/6 Jay Mack's Ledger 10/6

VERY FEW.

gives Yearly Sales, Purchases, Exes., with only 10 mins. work weekly; Easy Stocktaking explained; Form Pages show Balance Sheets and Income Tax Deductions; no previous Book-keeping experience needed.

4 Years 5 Columns

On appo. on receipt of cheque. 1/- Post Booking Fee, deducted if returned.

Mack-Ivor, Hightown P.O.; Crewe.

Ayrton, Evans, Bleasdale, Ucal Raines (Edinb.)

Australia: Felton Grimwade C.D.A.

S. Africa: Border Drug, Gardners.

PERFUMERS! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write, stating requirements—

MARTIN & CO., 71 City Road, Finsbury, London, E.C.1

SACCHARINE TABLETS

Full Strength, ½ gr. 330 in 1.

Per lb., 145/- 5000 @ 21/- 10,000 @ 20/9

½ gr. 330 in 1.

8000 @ 15/- 30,000 @ 14/6 50,000 @ 14/- 100,000 @ 13/6

Cash with Order. Carriage Paid.

R. GIBBONS & CO. Wholesale Tablet Manufacturers,

1 Birkbeck Road, Kingsland, London, E.8.

Saccharin Tablets

(GUARANTEED STRENGTH)

IMMEDIATE DELIVERY. NO WAITING.

1 lb. for £6 18 6 per lb. 9 lbs. for £6 10 0 per lb.

5 lbs. " £6 15 0 " 20 " £6 5 0 "

SWEETENING POWDER 80 times as Sweet as Sugar. At £4 5 0 per lb.

The Lawrence Saccharin Tablet Co. 36 Camomile Street, London, E.C.3.

We are open to appoint first-class agents and travellers, correspondence invited.

**Envelopes containing 100
UNCONTROLLED
SACCHARINE TABLETS**

@ 24/- per doz. net.
In Tubes, 1/- per doz. extra.

Carriage paid. Cash with Order.
Delivery day after receipt of order.

THE CLEVELEYS CHEMICAL COMPANY
22 & 23 Ct. Tower Street, London, E.C. 3.

**"BENNETT'S"
Saccharin Tablets**

The Finest yet offered. Soluble.
Immediate Del very from Stock.

1 lb.	...	...	£7 0 0	per lb.
5 lb.	...	...	£6 18 9	"
10 lb.	...	...	£6 18 3	"
50 lb.	...	...	£6 17 6	"
100 lb.	...	...	£6 16 6	"

Average **over 8,000** Tablets to the lb.

CASH WITH ORDER. CARRIAGE PAID.

BENNET & CO., Cromwell House,
HOLBORN, LONDON, W.C. 1.

**SWEET LEAF
THE MOST CONVENIENT
SUGAR
SUBSTITUTE
FOR SWEETENING BEVERAGES.**

Supplied in booklets of 60; handy for waistcoat pocket.
New improved issue, 9d. retail.

Trade Discount: 1 gross, 20%; 10 gross, 25%.

Place your orders early. All orders filled in rotation.

Terms Cash.

W. DIVINE, 104 High Holborn, W.C. 2.

The Best and Cheapest Uncontrolled
SACCHARIN TABLETS

on the Market

(Made from the best Monsanto American powder).

$\frac{1}{2}$ grain in one.		$\frac{1}{2}$ grain in one.	
10,000 @	16/- per 1000	10,000 @	18/6 per 1000
25,000 "	15 10 "	25,000 "	18/4 "
50,000 "	15 8 "	100,000 "	18/2 "
500,000 "	15/6 "	500,000 "	18/- "
Packed in boxes of 1000		Packed in boxes of 1000	
16/2 per 1000.		18/8 per 1000	

Cash with order. Carriage Paid. Prompt delivery.

THE B. & A. TRADING CO.
6 St. George's Terrace, Regent's Park, London,
N.W. 3.

DOCTOR WILSON'S SWEETEN-IT

Is a Highly Concentrated Substitute for Sugar.

TRY IT YOU WILL BE DELIGHTED.

Good for Ice-Cream, Cakes, Pastry, Fuddings, **SWEETEN-IT** Jam, etc.

SELLS LIKE HOT CAKES.

Packed in Envelopes.

Retail 3d. Packet costs	30/- gross, Wholesale	27 6	5 gross
" 6d. "	52/- "	50/-	assorted
" 1/- "	96/- "	92/-	only.

Cash with Order. Immediate delivery. Carriage Paid.

AGENTS:

LYNDWOOD & CO., Wholesale Chemists,
71 High Holborn, E.C.

Don't worry over the scarcity of Saccharin Tablets!

SELL

SUCRON

(Sugar Substitute).

It sells at sight, and repeats follow as a matter of course.
One Chemist repeated his order three times in a week, and in a month sold £100 worth.

7½d. size, 5/9 per doz.; 1/2 size, 11/- per doz.; 2/3 size, 21/- per doz.

A cheque for £2/4/3 will bring you 3 doz. 7½d., 1½ doz. 1/2, 1-do. 2/3, together with a Showcard and Window Bills. Terms Cash with Order direct only.

THE GREENWICH LEMONADE CO.
209 Trafalgar Road, Greenwich.

Cotton Wool

Compare quality, as well as price, before ordering.
WE can save you about 30%.

WHITE ABSORBENT COTTON WOOL (interleaved)
in 1 lb. rolls, at 2/2 per lb.

Packed in 1 cwt. Bales. Bales charged extra, 3/6 each.

Also packed in 56-lb. bales at 2/2½, and in 28-lb. bales at 2/3 per lb.
Carriage paid on 56 lb. Bales 2/6 & 1/6 each. Cheque with Order.

Bales must be paid for, and allowed for when returned.

We can also offer 25 cwts. NAPHTHALEINE (Flake) at 35/- per cwt.
35 " MAG. SULPH. 25/- "

THE PRIMO DRUG COMPANY
5 BURY NEW ROAD, MANCHESTER.

About 2,000 TUBES, each 15 TABLETS,

**'PASTILLAS de OXICIANURO
de MERCURIO.'**

20 BOTTLES, each 300 TABLETS,

'PASTILLAS de SUBLIMADO.'

About 22 DOZ. BOTTLES, each about 15 TABLETS,

CASCARA SAGRADA.

WHAT OFFERS ?

N. L. SCALIARIS, 89-90 Leadenhall Street, LONDON, E.C. 3.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

The prices announced below will come in force as from the date of this issue :—

Advert.
Price.

Minimum Retail Price. Minimum Wholesale Price.

Carter's Little Liver Pills :

Correction Note : The price quoted for Smalls in the August A.-C.R. should be for 5-doz. lots. The correct price for Smalls is 12/8.

Christy & Co.'s Goods :

1/3	T.M. Smoker's Tooth Paste	1/3	9/9
7½d.	"	Powder 7½d.	3/9
No. 7	Lanoline	...	7d. 4/8
" 9	"	...	1/- 6/6
" 10	"	...	1/3 8/-

SACCHARIN TABLETS

½ gr. 330 in 1.

Neatest and Sweetest.

	£	s.	d.	
1 lb.	7	4	6	per lb.
5 lb.	7	4	0	"
10 lb.	7	3	6	"
25 lb.	7	3	0	"
50 lb.	7	2	6	"
100 lb.	7	2	0	"

Cash with Order. Carriage Paid. Prompt Delivery.

RICHARD HOULT,
73 Elford Grove, LEEDS.

SACCHARIN TABLETS

½ gr., 330 in 1.

By Weight ...	...	102/- per lb.
		(about 7,000 per lb.)
In Bottles ...	100s @	22/-
" ...	200s "	43/- per doz.
" ...	500s "	105/- bottles.
" ...	1000s "	205/-
In Boxes '...	100s "	21/- per doz.
In Tubes ...	80s "	17/-

Minimum £10 orders.

ALL ORDERS, LARGE OR SMALL, CAN BE SUPPLIED FROM STOCK.

Pro forma on receipt of order.
Delivery on receipt of cash.

THE
Globe Tablet & Manufacturing Co.
Globe Works, Nunhead Green, London, S.E. 15

Telephone : Office, City 8203.
" Works, New Cross 115.

SACCHARIN TABLETS

(½ gr. 330 in 1)

	£	s.	d.	
1 lb.	7	5	0	per lb.
2 "	7	4	6	"
5 "	7	4	0	"

(Average over 7000 to pound.)

SCREW { 100s at 27/- per doz.
CAP { 200s " 52/- " "
FLASKS { 1000s " 21/- each.

CASH WITH ORDER. CARRIAGE PAID.
SAME DAY AS ORDER RECEIVED.

Being MAKERS and not merely FACTORS of SACCHARIN TABLETS, we can fully guarantee the QUALITY. Our Tablets are now supplied direct and not through agents.

Correspondence invited from large buyers.

WALTON, Chemist, Batley
YORKS.

REDDGRAVE, BUTLER & CO.

ESSEX HOUSE, STRATFORD, E. 15.

Telephone : STRATFORD 799.

PARAFFINUM LIQUIDUM FLAV.

B.P. CODEX ADDENDUM, 1918,

FOR MANUFACTURE OF

LIN. CAMPHORÆ,

LIN. CHLOROFORMI,

LIN. TEREBINTHINÆ ACETICUM

PARAFFINUM LIQUIDUM, B.P.

"A living profit, which should be at least 20 per cent. on turnover."

Vide PHARMACEUTICAL JOURNAL, August 10.

This is an extract from the letter of a pharmacist whose idea of a living profit on proprietaries is at least 20 per cent. on turnover.

Twenty per cent. is not much. Take away 10 per cent. for "overhead" expenses and there is little left, rather more than a penny in the shilling, as net profit.

Bell's Ceregen, the well-known Proteid Food, yields you a profit far greater than 20 per cent. The prices are all protected at **face values**, and vary from **36 to 57** per cent. on turnover.

No other proprietary of the same kind on the market to-day can give you anything like this return, and the profit on a £5 parcel will buy you seven War Savings Certificates.

The **quality** is assured, the **taste** is pleasant; a statement which cannot truthfully be made about all similar foods, the **size** of the package is generous, the **results** are certain and lasting.

WHY NOT WRITE US NOW ?

**OUR
ADDRESS**

John Bell, Hills & Lucas, Ltd.
OXFORD WORKS,
Tower Bridge Road, LONDON, S. E. 1.

Telegrams:
Atoleine Sedist London.

Established 1798.

Telephones:
Hop 3584 3585

Disinfectants

Fluid or Powder Form
with guarantee of
Tar Acids or
Co-efficiency.

**Liquid
Sheep Dip**

Paste &
Block
form
also
supplied.

*These Goods may be
offered under Chemists'
Own Name and Brand.*

BURT, BOULTON & HAYWOOD, LTD.,

64 CANNON ST.,
LONDON, E.C.

Chemical Works: Prince Regent's Works, Silvertown, E.

"IALINE"—LYSOL
BRITISH MADE

Supplied
in 4 and 8 oz.
bottles, also
casks and drums.

Bournville Cocoa & Chocolate

"THE VERY FINEST PRODUCTS"—*The Medical Mag.*

MADE BY CADBURY.



PATTINSON'S

MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 6 Lloyd's Avenue, London, E.C.